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OF

SCIENTIFIC LITERATURE

NINTH ANNUAL ISSUE.

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VOLUME THE FORTY-SIXTH

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RELATING CHIEFLY TO THE YEAR

1909

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SUPPLEMENTED AND ARRANGED FOR THE ZOOLOGICAL SOCIETY OF LONDON

BY D. SHARP, H. M. WOODCOCK, IGERNA B. J. SOLLAS, C. L. BOULENGER, H. L. HAWKINS, F. W. EDWARDS, H. B. PRESTON, W. T. CALMAN, W. L. SCLATER, AND R. LYDEKKER

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Papers and Memoirs intended for this work should be addressed to "THE EDITOR of the Zoological Record, Zoological Society, Regent's Park, London, N.W." It is earnestly requested that in the case of separately-printed copies of papers so forwarded, the *original pagination* may be indicated.

EXPLANATORY.

This Volume is printed in twenty Divisions, as enumerated on p. xii.

The pagination of each Division is separate, and is given at the left-hand top corner of the pages. The number and name of the Division is given as a heading on each left-hand page. The Registration Numbers are given at the right-hand top corner of the right-hand pages. The date 1909 corresponding to the bulk of the literature indexed is given at the right-hand top corner of the left-hand page.

In the Subject Index of each Division authors are quoted by name only. The full references will be found in the Title Section of the Division.

A List of Abbreviations of Titles of Journals is given at the end of the volume. This List includes not only journals actually indexed in this volume, but also journals that have been indexed in previous volumes. It should therefore be a fairly complete List of Journals that contain Zoological papers.

The Literature indexed is mainly that of 1909 but includes entries for 1901–1908 that have been received too late for inclusion in previous volumes of the International Catalogue.

The two title-pages show that Volume N (Zoology) of the Ninth annual issue of the International Catalogue of Scientific Literature and Volume XLVI of the Zoological Record are identical.

The proposal for an amalgamation of the Zoological Record with Volume N of the International Catalogue was approved by the International Convention which met in London in July, 1905. The agreement concluded with the Zoological Society of London provides that the amalgamation shall be for a period of five years, covering the literature of 1906–1910; at the end of this period each party to the agreement may resume the independent issue of its annual volumes, preserving the continuity of its series.

Subscribers to the Zoological Record will receive the volumes bound uniformly with previous volumes of the Record, while subscribers to the International Catalogue will receive their volumes in covers uniform with other volumes of the Catalogue.

The Schedules of Classification are bound up with the volumes intended for subscribers to the International Catalogue, but are absent from the volumes bound uniform with the Zoological Record.

The volume is arranged in accordance with these Schedules, but in one or two instances, notably in the case of Section XII Insecta, the Editor has adopted a modified arrangement.

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I. COMPREHENSIVE AND GENERAL ZOOLOGY.

II. PROTOZOA.

III. PORIFERA OR SPONGIAE.

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V. ECHINODERMATA.

VI. VERMIDEA: including GEPHYREA AND PTEROBRANCHIATA.

VII. BRACHIOPODA AND BRYOZOA OR POLYZOA.

VIII. MOLLUSCA.

IX. ARTHROPODA (GENERAL).

X. CRUSTACEA.

XI. ARACHNIDA AND MYRIOPODA; including also GIGANTOSTRACA, EURYPTERIDA, PROTOTRACHEATA.

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XIII. PROCHORDATA = TUNICATA, CEPHALOCHORDATA, ENTEROPNEUSTA.

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ALPHABETICAL INDEX OF NEW NAMES OF GENERA AND SUBGENERA.

LIST OF ABBREVIATIONS AND OF TITLES OF JOURNALS.

International Catalogue of Scientific Literature

SCHEDULE

OF

CLASSIFICATION

(N) ZOOLOGY

(N) ZOOLOGY.

EXPLANATORY.

Owing to the great extent of Zoology, and the consequent specialisation that occurs amongst its workers, and because also of the desire that parts of the Zoological Catalogue shall be complete each one in itself, Zoology is divided into "Branches." These Branches, though primarily determined by the natural divisions of the animal kingdom, do not entirely correspond therewith, because of the great difference in the extent of the natural divisions. Some of these divisions (Phyla, or Classes) are consequently treated together, while others are divided into more than one Branch. When a division of this kind is adopted, there is also a Branch in which the divisions are still treated together as one whole, viz., Arthropoda, 2400–2431, and Vertebrata, 5200–5231. These two Branches will include only works of a wide scope. Thirty Branches are adopted, under the numbers 0400 to 6031, and there is also a comprehensive Branch numbered 0000–0231.

The subject matter of Zoology proper (as distinguished from the mode of arrangement of the animals alluded to above) is arranged under eight heads (or great Subjects). These eight Subjects all recur under each of the thirty Branches. Each Subject is indicated by a number, the terminal two digits of which are the same in every Branch. These great subjects will be found under 0207 to 0231.

Each great subject is divided into sub-divisions which are not numbered.

(N) ZOOLOGIE.

ERLÄUTERUNG.

Bei dem grossen Umfange der Zoologie und bei der hieraus sich ergebenden Specialisierung unter ihren Forschern, und ferner, weil der Wunsch besteht, dass einzelne Teile der zoologischen Bibliographie ein in sich geschlossenes Ganzes darstellen möchten, ist es als notwendig befunden, die Zoologie nach „Zweigen" abzuteilen.

Diese Zweige sind zwar in erster Linie nach den natürlichen Gruppen des Tierreichs bestimmt, entsprechen ihnen aber doch nicht völlig, da der Umfang der einzelnen natürlichen Gruppen zu verschieden ist.

Demgemäss sind einzelne dieser Gruppen (Phyla oder Klassen) mit einander zusammengefasst, während andere in mehrere Zweige geteilt sind. In den Fällen, wo eine solche Teilung vorgenommen ist, giebt es auch einen Zweig, in dem die betreffende Gruppe ungeteilt als Ganzes behandelt wird, nämlich Arthropoden, 2400–2431 und Vertebraten, 5200–5231. Diese beiden Zweige sollen nur Werke allgemeinerer Art enthalten. Im ganzen sind unter Nummer 0400 bis 6031 dreissig Zweige angenommen und dazu kommt noch ein alles umfassender, unter Nummer 0000 bis 0231.

Der sonstige Stoff der Zoologie (im Unterschied von der Art der Anordnung der Tiere, von der bisher die Rede war) ist auf acht Kapitel (oder Hauptgegenstände) verteilt. Diese acht Gegenstände kehren bei jedem der dreissig Zweige wieder. Jeder Gegenstand ist durch eine Nummer bezeichnet, deren letzte beide Ziffern in allen Zweigen die gleichen sind.

Diese Hauptgegenstände findet man unter 0207 bis 0231.

Jeder Hauptgegenstand ist in Unterabteilungen geteilt, die nicht numeriert sind.

(N) ZOOLOGIE.

EXPLICATION.

Etant donnée d'une part la grande extension de la Zoologie, qui force les adeptes de cette science à se spécialiser, et d'autre part la nécessité de rendre les diverses parties du Catalogue zoologique indépendantes les unes des autres, et aussi complètes que possible, on a jugé nécessaire de diviser la Zoologie en un certain nombre de "branches." Ces branches ont été établies autant que possible d'après les divisions naturelles du règne animal; toutefois elles ne correspondent pas toujours exactement à ces divisions, en raison des grandes différences qui existent dans l'étendue de celles-ci. Il en résulte que certaines divisions (phyla, ou embranchements) sont traitées ensemble, tandis que d'autres sont partagées en plusieurs branches. Dans ce dernier cas il y a ordinairement une branche qui traite l'ensemble d'un embranchement, par exemple, Arthropodes, 2400–2431, et Vertébrés, 5200–5231. Ces deux branches ne comprennent que des ouvrages traitant un sujet assez vaste. On a adopté trente branches, portant les indices 0400 à 6031. Il y a en outre une branche de généralités portant l'indice 0000–0231.

La Zoologie considérée en elle-même, indépendamment des subdivisions en groupes auxquelles il vient d'être fait allusion, est partagée en huit chapitres (ou grandes catégories de sujets). Ces huit catégories se répètent dans chacune des trente branches, et sont indiquées chacune par des nombres dont les deux derniers chiffres sont les mêmes dans toutes les branches. Elles se trouvent sous les indices 0207 à 0231. Chacune d'elles se partage en subdivisions qui ne portent pas d'indices spéciaux.

(N) ZOOLOGIA.

SPIEGAZIONI.

In causa della grande estensione della zoologia, e della conseguente specializzazione che esiste tra i suoi cultori, e perchè è desiderabile che le parti del Catalogo zoologico siano complete ciascuna per sè stessa, si è trovato necessario dividere la zoologia in "rami." Questi rami, quantunque principalmente determinati dalle naturali divisioni del regno animale, non corrispondono interamente ad esse in causa della grande differenza nella estensione delle divisioni naturali. Alcune di queste divisioni (phyla, oppure classi) sono conseguentemente trattate insieme, mentre che altre sono divise in più di un ramo. Quando una divisione di questo genere è adottata, vi è anche un ramo nel quale le divisioni sono tuttavia trattate insieme come un complesso, p. es. Arthropoda, 2400–2431, e Vertebrata, 5200–5231. Questi due rami includeranno soltanto opere di largo soggetto. Trenta rami sono adottati, sotto i numeri 0400 a 6031, e inoltre è incluso un ramo comprensivo col numero 0000–0231.

La materia della zoologia comprensiva (distinta da quella de' gruppi degli animali qui sopra accennati) è disposta sotto otto capitoli (o grandi soggetti). Questi otto soggetti tutti si ripetono in ognuno dei trenta rami. Ciascun soggetto è indicato da un numero, del quale le due ultime cifre sono le stesse in ciascheduno ramo. Questi grandi soggetti si trovano sotto i numeri da 0207 a 0231. Ciascun grande soggetto è diviso in sottodivisioni, che non sono numerate.

INSTRUCTIONS.

The registration numbers used in Zoology consist of four figures, of which the first two indicate the taxonomic position of the animal or animals dealt with and the last two the heading under which the paper is to be indexed.

Thus, in the registration number 2611 the figures 26 indicate *Crustacea*, while the figures 11 denote *Physiology*. All registration numbers beginning with 26 refer to Crustacea, and all registration numbers ending in 11 show that the paper indexed deals with a physiological subject.

The meaning to be assigned to the last two figures is always that given in the following list :—

..00 Title slip.
..03 Comprehensive and General Works. (For sub-divisions *see* Hyperzoology *p.* 18.)
..07 Structure. (For sub-divisions *see* 0207.)
..11 Physiology. (For sub-divisions *see* 0211.)
..15 Development. (For sub-divisions *see* 0215.)
..19 Ethology. (For sub-divisons *see* 0219.)
..23 Variation and Aetiology. (For sub-divisions *see* 0223.)
..27 Geography. (For sub-divisions *see* (J) Geography.)

..31 Taxonomy.
The meaning of the first two figures is as follows :—
02.. General papers, or papers dealing with several classes of animals.
04.. Protozoa.
06.. Porifera (or Spongida).
08.. Coelenterata (or Cnidaria).
10.. Echinodermata.
12.. Platyhelminthes. Mesozoa and Trichoplax.
14.. Nemathelminthes.
16.. Chaetognatha. Rotifera. Gastrotricha. Kinorhyncha (or Echinodera).
18.. Archiannelida. Polychaeta. Myzostomaria Oligochaeta. Gephyrea. Phoronis. Hirudinea.

INSTRUKTIONEN.

Die in der Zoologie gebrauchten Ordnungsnummern bestehen aus vier Ziffern, von denen die beiden ersten die taxonomische Stellung des oder der behandelten Tiere anzeigen, während die letzten die Art der Behandlung angeben. So bedeutet z. B. in der Ordnungsnummer 2611 die 26 Crustacea, die 11 aber Physiologie. Die mit 26 beginnenden Ordnungsnummern beziehen sich also auf Crustacea, und alle Ordnungsnummern auf 11 geben an, dass die katalogisierte Arbeit sich mit einem physiologischen Gegenstande befasst.

Die Bedeutung der letzten beiden Ziffern ergiebt sich aus folgender Liste :—

Titel-Zettel.
Umfassende und allgemeine Arbeiten. (Unterabteilungen *siehe* Hyperzoologie *p.* 18.)
Morphologie. (Unterabteilungen *siehe* 0207.)
Physiologie. (Unterabteilungen *siehe* 0211.)
Entwickelung. (Unterabteilungen *siehe* 0215.)
Ethologie. (Unterabteilungen *siehe* 0219.)
Variation und Ätiologie. (Unterabteilungen *siehe* 0223.)
Geographische Verbreitung. (Unterabteilungen *siehe* (J) Geographie.)

Taxonomie.
Die ersten beiden Ziffern bedeuten Folgendes :—
Allgemeine, oder auf mehrere Tierklassen bezügliche Arbeiten.
Protozoa.
Porifera (oder Spongida).
Coelenterata (oder Cnidaria).
Echinodermata.
Platyhelminthes. Mesozoa und Trichoplax.
Nemathelminthes.
Chaetognatha. Rotifera. Gastrotricha. Kinorhyncha (oder Echinodera).
Archiannelida. Polychaeta. Myzostomaria. Oligochaeta. Gephyrea. Phoronis. Hirudinea.

INSTRUCTIONS.

Les numéros enregistreurs employés en zoologie comprennent quatre chiffres, dont les deux premiers indiquent la position taxonomique de l'animal ou des animaux en question, tandis que les deux derniers indiquent la rubrique sous laquelle le mémoire doit être classé.

Ainsi, dans le numéro enregistreur 2611 les chiffres 26 indiquent Crustacés, pendant que les chiffres 11 signifient Physiologie. Tout numéro enregistreur qui commence par 26 se rapporte aux Crustacés, de même que tout numéro enregistreur en 11 indique que le mémoire dont il est question s'occupe de physiologie.

La signification des deux derniers chiffres est toujours celle qui est donnée dans la liste suivante :—

..00 Fiche de titre.
..03 Ouvrages généraux ou d'une grande étendue. (Pour les subdivisions *voy.* Hyperzoologie *p.* 19.)
..07 Morphologie. (Pour les subdivisions *voy.* 0207.)
..11 Physiologie. (Pour les subdivisions *voy.* 0211.)
..15 Développement. (Pour les subdivisions *voy.* 0215.)
..19 Ethologie. (Pour les subdivisions *voy.* 0219.)
..23 Variation et étiologie. (Pour les subdivisions *voy.* 0223.)
..27 Distribution géographique. (Pour les subdivisions *voy.* (J) Géographie.)
..31 Taxonomie.

La signification des deux premiers chiffres est comme suit :—

02.. Mémoires généraux ou ayant trait à plusieurs classes d'animaux.
04.. Protozoaires.
06.. Porifères (ou Spongiaires).
08.. Cœlentérés (ou Cnidaria).
10.. Echinodermes.
12.. Platyhelminthes. Mésozoaires et le Trichoplax.
14.. Némathelminthes.
16.. Chætognathes. Rotifères. Gastrotriches. Kinorhynques (ou Echinodères).
18.. Archiannélides. Polychètes. Myzostomes. Oligochètes. Géphyriens. Phoronis. Hirudinées.

(ISTRUZION).

I numeri di registrazione a loperati nella zoologia consistono di quattro cifre, delle quali le due prime indicano la posizione tassonomica dell'animale o degli animali di cui si tratta, mentre che le due ultime indicano la rubrica sotto la quale si ha da catalogare la memoria. Così, nel numero di registrazione 2611 le cifre 26 indicano *Crustacea*, mentre che le cifre 11 si riferiscono alla *Fisiologia*. Ogni numero di registrazione che comincia con 26 si riferisce ai Crustacea, e da ogni numero che termina in 11 si può inferire che la memoria catalogata si occupa di fisiologia.

Le due ultime cifre hanno invariabilmente la significazione che si vede nell'elenco seguente :—

Scheda a titolo.
Opere generali e comprensive. (Per le suddivisioni *vedi* Iperzoologia *p.* 19.)
Struttura. (Per le suddivisioni *vedi* 0207.)
Fisiologia. (Per le suddivisioni *vedi* 0211.)
Sviluppo. (Per le suddivisioni *vedi* 0215.)
Etologia. (Per le suddivisioni *vedi* 0219.)
Variazione ed Etiologia. (Per le suddivisioni *vedi* 0223.)
Geografia. (Per le suddivisioni *vedi* (J) Geografia.)

Tassonomia.

Le due prime cifre hanno sempre la significazione seguente :—

Lavori generali o riferentisi a più classi di animali.
Protozoa.
Porifera (vel Spongida).
Cœlenterata (vel Cnidaria).
Echinodermata.
Platyhelminthes. Mesozoa e Trichoplax.
Nemathelminthes.
Chætognatha. Rotifera. Gastrotricha. Kinorhyncha (vel Echinodera).
Archiannelida. Polychæta. Myzostomaria. Oligochæta. Gephyræa. Phoronis. Hirudinea.

20..	Brachiopoda. Bryozoa (or Polyzoa).	Brachiopoda. Bryozoa (oder Polyozoa).
22..	Mollusca.	Mollusca.
24..	Arthropoda.	Arthropoda.
26..	Crustacea.	Crustacea.
28..	Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.	Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.
30..	Arachnida.	Arachnida.
32..	Prototracheata (or Onychophora).	Prototracheata.
34..	Myriopoda.	Myriopoda.
35..	Insecta.	Insecta.
36..	Aptera (or Apterygogenea). Anoplura. Mallophaga. Thysanoptera (or Physopoda). Siphonaptera (or Aphaniptera).	Aptera (oder Apterygogenea). Anoplura. Mallophaga. Thysanoptera (oder Physopoda). Siphonaptera (oder Aphaniptera).
38..	Orthoptera, Neuroptera and Trichoptera.	Orthoptera, Neuroptera und Trichoptera.
40..	Hemiptera (or Rhynchota), excluding Anoplura, which are placed in 36..	Hemiptera (oder Rhynchota), excl. Anoplura, die unter 36 .. eingeordnet sind.
42..	Diptera, excluding Siphonaptera, which are placed in 36..	Diptera, excl. Siphonaptera, die unter 36.. eingeordnet sind.
44..	Lepidoptera.	Lepidoptera.
46..	Hymenoptera.	Hymenoptera.
48..	Coleoptera, including Strepsiptera.	Coleoptera, incl. Strepsiptera.
50..	Prochordata : Amphioxus (or Leptocardii), Enteropneusta, Tunicata.	Prochordata : Amphioxus (oder Leptocardii), Enteropneusta, Tunicata.
52..	Vertebrata.	Vertebrata.
54..	Pisces, excluding Leptocardii (or Amphioxus), which are placed in 50..	Pisces, excl. Leptocardii (oder Amphioxus), die unter 50 .. eingeordnet sind).
56..	Amphibia and Reptilia.	Amphibia und Reptilia.
58..	Aves.	Aves.
60..	Mammalia.	Mammalia.

In addition to the complete volume it is intended to issue as three separate parts sections 12.. to 18.. (Vermidea); 28.. to 34..; and 35.. to 48.. (Hexapoda). Each of the remaining sections will then be published as a separate part.

Es wird beabsichtigt, ausser dem Gesamtbande noch drei separate, aus folgenden Abschnitten bestehende Teile herauszugeben: 12.. bis 18.. (Vermidea); 28.. bis 34..; und 35..bis 48.. (Hexapoda). Jeder der übrigen Abschnitte wird dann auch separat herausgegeben.

Slips or Cards used in preparing the Volume.

Four kinds of slips are to be provided:—(1) Title slips, (2) Subject slips, (3) Systematic (Taxonomic) slips, (4) New Genera or Species slips. The several slips relating to the same paper should be tied together, and should have a common (arbitrary) number. This number must not be used for any other paper until two years have

Zettel zur Vorbereitung des Bandes.

Es müssen vier verschiedene Zettel hergestellt werden:—(1) Titel-Zettel, (2) Sach-Zettel, (3) System-(Taxonomie-) Zettel, (4) Zettel für neue Gattungen oder Arten. Die verschiedenen, auf dieselbe Arbeit bezüglichen Zettel sollen zusammengeheftet und mit einer gemeinsamen (willkürlichen) Nummer versehen werden. Vor Ablauf von zwei

20..	Brachiopodes. Bryozoaires (ou Polyzoaires).	Brachiopoda. Bryozoa (vel Polyzoa)
22..	Mollusques.	Mollusca.
24..	Arthropodes.	Arthropoda.
26..	Crustacés.	Crustacea.
28..	Trilobites. Xiphosures. Eurypterides. Pantopodes. Tardigrades. Linguatulides.	Trilobita. Xiphosura Eurypterida. Pantopoda. Tardigrada Linguatulida.
30..	Arachnides.	Arachnida.
32..	Prototrachéates (ou Onychophores).	Prototrachéata (vel Onychophora).
34..	Myriapodes.	Myriopoda.
35..	Insectes.	Insecta.
36..	Aptères (ou Aptérygogéniens). Anoploures. Mallophages. Thysanoptères (ou Physopodes). Siphonaptères (ou Aphanipteres).	Aptera (vel Apterygogenea) Anoplura. Mallophaga. Thysanoptera (vel Physopoda) Siphonaptera (vel Aphanipteres)
38..	Orthoptères, Névroptères et Trichoptères.	Orthoptera, Neuroptera et Trichoptera.
40..	Hemiptères (ou Rhynchotes), à l'exclusion des Anoploures, qui sont placés sous le numéro 36..	Hemiptera (vel Rhynchota), exclusi Anoplura, che sono indicati col numero 36..
42..	Diptères, à l'exclusion des Siphonapteres, qui sont placés sous le numéro 36..	Diptera, exclusi Siphonaptera, che sono indicati col numero 36..
44..	Lépidoptères.	Lepidoptera.
46..	Hyménoptères.	Hymenoptera.
48..	Coléoptères, y compris les Strepsiptères.	Coleoptera, incl. Strepsiptera
50..	Prochordés : Amphioxus (ou Leptocardiens) Enteropneustes, Tuniciers.	Prochordata : Amphioxus (vel Leptocardii), Enteropneusta, Tunicata
52..	Vertébrés.	Vertebrata.
54..	Poissons, à l'exclusion des Leptocardiens (ou Amphioxus), qui sont placés sous le numéro 50..	Pisces, excl. Leptocardii (vel Amphioxus), i quali sono indicati col numero 50..
56..	Batraciens et Reptiles.	Batrachia et Reptilia
58..	Oiseaux.	Aves.
60..	Mammifères.	Mammalia.

Outre le volume complet, l'on se propose de publier en trois volumes à part les sections 12.. à 18.. (Vermides) ; 28.. à 34.. ; et 35.. à 48.. (Hexapodes). Puis chacune des sections suivantes sera aussi publiée à part.

Oltre il tomo completo si ha l'intenzione di pubblicare in tre parti separate le sezioni 12.. a 18.. (Vermides) ; 28.. a 34.. ; e 35.. a 48.. (Hexapoda). Ciascuna delle rimanenti sezioni verrà poi anche pubblicata separatamente.

Rédaction des Fiches.

Il doit y avoir quatre sortes de fiches, savoir : — (1) Fiches de titre, (2) Fiches de matière, (3) Fiches systématiques (taxonomiques), (4) Fiches pour les genres ou espèces nouvelles. Toutes les fiches qui se rapportent au même mémoire doivent être attachées ensemble et marquées d'un numéro en commun (arbitraire). Ce numéro ne

Redazione delle Schede.

Devono farsi quattro specie di schede — (1) Schede a titolo, (2) Schede a materia, (3) Schede sistematiche (tassonomiche), (4) Schede per i generi o le specie nuove. Tutte le schede riferentisi al medesimo lavoro devono essere attaccate insieme e segnate con un numero comune (arbitrario). Questo numero non è da usare

elapsed. The slips should be prepared as follows:—

(1) *Title slips.*—The first entry on a title slip is the letter N, followed by a four-figure registration number, in which the first two figures indicate the Branch of zoology as given in the above list, while the two last figures are ..00. The remaining entries on the title slips are to be made as on the author slips for the other sciences.

At the foot of each title slip all the registration numbers corresponding to the subject and systematic slips prepared for the paper are to be given. If a paper is to be indexed under more than one Branch of zoology a separate title slip must be prepared for each Branch.

Example—

N 6000.

Mansion, Arthur. La taupe commune. Rev. sci., Paris, (sér. 4), **17**, 1902, (13–18). [6019 6031].

In order to economise space and to simplify entries, the full reference to a paper will be made only on the title and systematic slips. Each title slip will be printed in the Catalogue with a definite number attached. This number, together with the author's name, will be the reference to the paper in all other cases.

(2) *Subject Slips.*—The entries on the subject slips shall not, as a rule, be reproductions of the title, but such modifications thereof as shall serve to convey the necessary information in the clearest and most direct manner possible.

To prepare such slips properly it is essential that the papers shall have been read and indexed by those who are able to determine what are the several matters of importance to be brought under notice.

In the case of slips bearing the numbers 0000–0050, 0070 and 0090,

Jahren darf keine andere Arbeit mit derselben Nummer bezeichnet werden.

(1) *Titel-Zettel.*—Die erste Eintragung auf einem Titel-Zettel ist der Buchstabe N, worauf eine vierziffrige Ordnungsnummer folgt wovon die zwei ersten Ziffern den Zweig der Zoologie bezeichnen, wie in obiger Liste angegeben, während die zwei letzten Ziffern ..00 sind. Die übrigen Eintragungen auf dem Titel-Zettel sind in derselben Weise abzufassen wie bei den Autoren-Zetteln in den anderen Wissenschaften.

Am Fusse eines jeden Titel-Zettels müssen sämtliche, den für die betreffende Arbeit hergestellten Sach- und System-Zetteln entsprechende, Ordnungsnummern angegeben werden. Soll ein Aufsatz unter mehr als einem Zweige der Zoologie katalogisiert werden, so ist für jeden Zweig ein besonderer Titel-Zettel herzustellen.

Beispiel—

N 6000.

Mansion, Arthur. La taupe commune. Rev. sci., Paris, (sér. 4), **17**, 1902, (13–18). [6019 6031].

Um Raum zu ersparen und die Eintragungen zu vereinfachen kommt das vollständige Citat nur auf die Titel- und System-Zettel. Jedem im Kataloge gedruckten Titel-Zettel wird eine bestimmte Nummer zugeteilt. Diese Nummer, mit dem Verfassernamen, bildet in allen anderen Fällen das Citat.

(2) *Sach-Zettel.* — Die Eintragungen auf den Sach-Zetteln sollen in der Regel keine Wiederholungen des Titels sein, sondern solche Modifikationen desselben, dass sie die erforderliche Auskunft so kurz und bündig wie möglich erteilen.

Für die richtige Fassung solcher Zettel ist es von Wichtigkeit, dass die Aufsätze von Personen gelesen und katalogisiert werden, welche im stande sind das Wichtige darin zu erkennen und hervorzuheben.

Bei Zetteln, welche die Nummern 0000–0050, 0070 und 0090 tragen,

doit être employé pour aucun autre mémoire qu'au bout de deux ans. Voici comment il faut rédiger les fiches :—

(1) *Fiches de titre.*—La fiche de titre doit commencer par la lettre N, suivie d'un numéro enregistreur de quatre chiffres, dont les deux premiers indiquent la branche de zoologie d'accord avec la liste ci-dessus, tandis que les deux dernières sont 00. Ensuite la fiche de titre sera établie de la même façon que les fiches d'auteur pour les autres sciences.

Chaque fiche de titre doit porter en bas tous les numéros enregistreurs qui correspondent aux fiches de matière et systématiques qui aient été rédigées pour le mémoire dont il s'agit. Si un mémoire doit être catalogué sous plus d'une branche de zoologie il faut une fiche séparée pour chaque branche.

Exemple—

N 6000.

Mansion, Arthur. La taupe commune. Rev. sci., Paris, (sér. 4), 17, 1902, (13-18). [6019 6031].

Pour gagner de la place et simplifier les articles, la référence ne sera donnée en entier que sur les fiches de titre et les fiches systématiques. Chaque fiche de titre sera imprimée dans le Catalogue et désignée par un numéro. Ce numéro, avec le nom d'auteur, servira de renvoi à l'article partout ailleurs.

(2) *Fiches de matière.*—Règle générale, la fiche de matière doit porter non pas une reproduction du titre mais de telles modifications du titre qui suffisent à donner les renseignements nécessaires de la manière la plus précise.

Afin que de telles fiches soient bien établies il est essentiel que les mémoires aient été lus et catalogués par des personnes à même de déterminer quelles sont les choses d'importance à faire ressortir. Là où il s'agit de fiches portant les numéros 0000-0050, 0070 et 0090, le

per nessun altro lavoro prima che siano scorsi due anni. Le schede devono essere redatte come segue :—

(1) *Schede a titolo.*—La scheda a titolo deve cominciare colla lettera N, seguita da un numero di registrazione di quattro cifre di cui le due prime indicano il ramo di zoologia d'accordo coll'elenco dissopra, mentre che le due ultime sono ..00. Le altri annotazioni sulla scheda a titolo si fanno poi come sulle schede per autori nelle altre scienze.

La scheda a titolo deve portare in fondo tutti i numeri di registrazione corrispondenti colle schede sistematiche ed a materia che si siano preparate per il lavoro di cui si tratta. Se si vuol catalogare un lavoro sotto più d'un ramo di zoologia bisogna fare una scheda separata per ogni ramo.

Esempio—

N 6000.

Mansion, Arthur. La taupe commune. Rev. Sci., Paris, (sér. 4), 17, 1902, (13-18). [6019 6031].

Per risparmiare lo spazio e ridurre al più semplice le annotazioni, la riferenza non verrà scritta per esteso che sulle schede a titolo e le schede sistematiche. Ogni scheda a titolo si stamperà nel Catalogo con un numero definito. Questo numero, assieme al nome dell'autore, costituirà la riferenza al lavoro in ogni altro caso.

(2) *Schede a materia.*—Le annotazioni sulle schede a materia non saranno, di regola, ripetizioni del titolo, ma saranno tali modificazioni di questo che bastino a dare le informazioni necessarie nel modo più perspicuo che sia possibile.

Perchè tali schede siano ben redatte è essenziale che le memorie siano state lette e catalogate da persone che possano determinare quali sono le cose importanti da far risaltare.

Trattandosi di schede portanti i numeri 0000-0050, 0070 e 0090, il

the author's name should immediately follow the registration number.

Example—

N 0040.
Ross, R. Malaria and mosquitoes. London, Proc. R. Inst., **16**, 1901, (295–313).

This should be attached to the title slip and abbreviated thus :—

N 0040.
Ross, R. Malaria and mosquitoes. (295–313).

In cases in which it is desirable, for other purposes which the Bureaus may have in contemplation, to enter the full reference on the slip, the shortened reference will be made at the Central Bureau by striking out unnecessary particulars.

On slips bearing a number ending in ..27 (Geographical Distribution) the registration number should be immediately followed by the geographical symbol. After this should come (*a*) the author's name, (*b*) the title of the paper.

Example—

N 2227 *hc*.
Pilsbry, H. A. A new Colombian Pleurodonte [*P. clappi*]. Nautilus, Philadelphia, Pa., **15**, 1901, (34–35).

which, if the above directions are followed, will be reduced to—

N 2227 *hc*.
Pilsbry, H. A. A new Colombian Pleurodonte. (34–35).

The remaining registration numbers, viz., 0060, and those ending in ..03, ..07, ..11, ..15, ..19, and ..23, are divided into numerous subheadings. One of these subheadings should follow the registration number.

A separate card must be provided for each entry that is to appear separately in the Catalogue.

In cases in which entries cannot be included under existing subdivisions, and for which a new sub-

muss der Verfassername unmittelbar auf die Ordnungsnummer folgen.

Beispiel—

N 0040.
Ross, R. Malaria and mosquitoes. London, Proc. R. Inst., **16**, 1901, (295–313).

Dieser Zettel müsste an den Titel-Zettel geheftet und wie folgt abgekürzt werden :—

N 0040.
Ross, R. Malaria and mosquitoes. (295–313.)

Falls es den Bureaus, zu irgend einem von ihnen beabsichtigten Zwecke, wünschenswert erscheint, das vollständige Citat beizubehalten, so wird das Centralbureau durch Streichen des Überflüssigen dasselbe abkürzen.

Bei Zetteln, welche eine Nummer auf ..27 tragen (geographische Verbreitung) muss das geographische Symbol unmittelbar auf die Ordnungsnummer folgen. Dann kommt (*a*) der Verfassername, (*b*) der Titel des Aufsatzes.

Beispiel—

N 2227 *hc*.
Pilsbry, H. A. A new Colombian Pleurodonte [*P. clappi*]. Nautilus, Philadelphia, Pa., **15**, 1901, (34–35).

was, obiger Vorschrift gemäss, abgekürzt so lautet :—

N 2227 *hc*.
Pilsbry, H. A. A new Colombian Pleurodonte. (34–35).

Die übrigen Ordnungsnummern, namentlich 0060 und jene auf ..03, ..07, ..11, ..15, ..19 und ..23, sind in zahlreiche Unterabteilungen geteilt. Eine dieser Unterabteilungen muss auf die Ordnungsnummer folgen.

Jeder besonderen Eintragung im Kataloge muss ein besonderer Zettel entsprechen.

Falls die vorhandenen Unterabteilungen zur gehörigen Katalogisierung nicht hinreichen und

nom d'auteur doit suivre immédiatement le numéro enregistreur.

Exemple—

N 0040.
Ross, R. Malaria and mosquitoes. London, Proc. R. Inst., 16, 1901, (295-313).

Ceci doit être attaché à la fiche de titre et abrégé ainsi :—

N 0040.
Ross, R. Malaria and mosquitoes. (295-313).

Dans les cas où les bureaux régionaux, dans un but quelconque, désirent mettre la référence en entier sur la fiche, le Bureau Central en fera la référence abrégée en biffant les détails superflus.

Sur les fiches portant un numéro en ..27 (Distribution Géographique) le numéro enregistreur doit être suivi immédiatement du symbole géographique. Ensuite viendrait (*a*) le nom d'auteur, (*b*) le titre du mémoire.

Exemple—

N 2227 *he*.
Pilsbry, H. A. A new Colombian Pleurodonte [*P. clappi*]. Nautilus, Philadelphia, Pa., 15, 1901, (34-35).

Ce qui, conformément aux instructions ci-dessus, sera réduit à :—

N 2227 *he*.
Pilsbry, H. A. A new Colombian Pleurodonte. (34-35).

Les autres numéros enregistreurs, c.à.d. 0000 et ceux en ..03, ..07, ..11, ..15, ..19 et ..23, sont divisés en de nombreuses subdivisions. Une de ces subdivisions doit suivre le numéro enregistreur.

Il faut une fiche séparée pour chaque article qui doit paraître séparément dans le catalogue.

S'il se trouve que les subdivisions actuelles ne suffisent pas et qu'une nouvelle subdivision serait à désirer,

nome dell'autore deve seguire immediatamente il numero di registrazione.

Esempio—

N 0040.
Ross, R. Malaria and mosquitoes. London, Proc. R. Inst., 16, 1901, (295-313).

Questo si deve attaccare alla scheda a titolo ed abbreviare così :—

N 0040.
Ross, R. Malaria and mosquitoes. (295-313).

Ove gli Uffici Regionali, a qualunque scopo, volessero annotare la riferenza sulla scheda per esteso, la riferenza abbreviata si farebbe dall'Ufficio Centrale col cancellare i dettagli soverchi.

Sulle schede portanti un numero in ..27 (Distribuzione Geografica) il numero di registrazione dev'essere seguito immediatamente dal simbolo geografico. Poi verrebbe (*a*) il nome dell'autore, (*b*) il titolo della memoria.

Esempio—

N 2227 *he*.
Pilsbry, H. A. A new Colombian Pleurodonte [*P. clappi*]. Nautilus, Philadelphia, Pa., 15, 1901, (34-35).

Questo le suddette istruzioni questo si riduciebbe a :—

N 2227 *he*.
Pilsbry, H. A. A new Colombian Pleurodonte. (34-35).

I rimanenti numeri di registrazione, cioè 0000 e quelli in ..03, ..07, ..11, ..15 e ..23 sono divisi in numerose suddivisioni. Una di queste suddivisioni deve seguire il numero di registrazione.

Ci vuol una scheda separata per ogni articolo che deve apparire separatamente nel Catalogo.

Nel caso di articoli che non si possono includere nelle suddivisioni attuali e per i quali o stima desidera-

division is thought to be desirable, such suggested new sub-division shall be recorded upon the card, in order that the matter may be dealt with by the Central Bureau. In no case must two differently numbered subjects be placed on one slip.

If the book or paper deals with so many of these sub-headings as to render it unnecessary to mention all of them, the word "general" should be used for the sub-heading. The sub-heading should be followed by (*a*) the author's name, (*b*) the title or modified title of the paper.

Example—

N 6015 [Regeneration].
Lange, C. Experiments on regeneration [of kidneys]. (Danish) Kjöbenhavn, Biol. Forh., **1899-1900**, 1901, (1-8).

If this card is sent to the Central Bureau tied to the corresponding title slip, it should be abbreviated, as explained above, to—

N 6015 [Regeneration].
Lange, C. Experiments on regeneration [of kidneys]. (Danish) (1-8).

(3) *Systematic slips.*—In these slips the name of the animal or animals should immediately follow the registration number. Where more than one genus is mentioned a separate slip must be prepared for each genus.

Every new genus must have a separate slip; the name of the new genus must be followed by the indication "n. gen.," a brief statement as to what it is allied to and some indication of the species it includes, followed by the author's name and reference.

New sub-genera are to be treated in a similar manner to genera, except that "n. subgen." will be used, and the name of the genus of which it is a division will follow.

eine neue Unterabteilung deshalb wünschenswert erscheint, so ist die vorgeschlagene neue Unterabteilung auf dem Zettel anzugeben, damit das Central-Bureau entscheide, wie dabei zu verfahren sei. Auf keinen Fall dürfen zwei verschieden numerierte Gegenstände auf einen Zettel gesetzt werden.

Bezieht sich das Buch, resp. der Aufsatz, auf so viele Unterabteilungen, dass es unzweckmässig ist, sie alle anzuführen, so gebraucht man das Wort „Allgemeines" für die Unterabteilung. Auf die Unterabteilung folgt (*a*) der Verfassername, (*b*) der Titel, resp. der modifizierte Titel der Arbeit.

Beispiel—

N 6015 [Regeneration].
Lange, C. Experiments on regeneration [of kidneys]. (Danish) Kjöbenhavn, Biol. Forh., **1899-1900**, 1901, (1-8).

Wird dieser Zettel mit dem entsprechenden Titel-Zettel zusammengeheftet an das Central-Bureau geschickt, so ist er, wie oben erklärt, folgendermassen abzukürzen :—

N 6015 [Regeneration].
Lange, C. Experiments on regeneration [of kidneys]. (Danish) (1-8).

(3) *System-Zettel.*—Bei diesen Zetteln soll der Name des Tieres oder der Tiere unmittelbar auf die Ordnungsnummer folgen. Wird mehr als eine Gattung erwähnt, so ist für jede Gattung ein besonderer Zettel herzustellen. Jede neue Gattung muss einen besonderen Zettel erhalten ; auf den Namen der neuen Gattung folgt die Bemerkung „n. gen.," eine kurze Notiz, wem sie verwandt ist, und irgend eine Angabe über die Species, die sie umfasst ; hierauf Verfassername und Citat.

Neue Untergattungen sind ähnlich zu behandeln, wie Gattungen, nur dass die Bemerkung „n. subgen." gebraucht und der Name der Gattung, um deren Unterabteilung es handelt, hinzugefügt wird.

la nouvelle subdivision que l'on propose doit être indiquée sur la fiche afin que le Bureau Central décide comment il faut procéder. En aucun cas deux articles portant des numéros différents ne doivent être écrits sur la même fiche.

Dans le cas où le livre ou mémoire traite de tant de ses subdivisions qu'il est inutile de les citer toutes, il faut employer le mot "Généralités" pour la subdivision. La subdivision doit être suivie (*a*) du nom d'auteur, (*b*) du titre ou du titre modifié du mémoire.

Exemple—

N 6015 [Regeneration]
Lange, C. Experiments on regeneration [of kidneys]. (Danish) Kjøbenhavn, Biol. Forh., 1899–1900, 1901, (1–8)

Si cette fiche est envoyée au Bureau Central attachée à la fiche de titre correspondante elle doit être abrégée, comme il est expliqué ci-dessus, à :—

N 6015 [Regeneration]
Lange, C. Experiments on regeneration [of kidneys]. (Danish) (1–8).

(3) *Fiches systématiques.*—Sur ces fiches le nom de l'animal ou des animaux doit suivre immédiatement le numéro enregistreur. Si mention est faite de plus d'un genre il faut une fiche distincte pour chaque genre.

Chaque genre nouveau doit avoir une fiche distincte ; le nom du genre nouveau doit être suivi de l'indication "n. gen.," puis d'une courte indication du genre ou des genres auxquels il est allié et de quelques indications relatives aux espèces qu'il renferme ; le tout sera suivi du nom d'auteur et de la référence.

Les sous-genres nouveaux seront traités de la même façon que les genres, mais l'indication "n. gen." sera remplacée par "n. subgen.," et l'on mettra ensuite le nom du genre auquel le sous-genre se rattache.

Se è stata proposta qualche nuova subdivisione, si deve annotare sulla scheda la nuova subdivisione proposta affinchè l'Ufficio Centrale decida come o debba comportare con essa. In nessun caso si devono porre sulla stessa scheda due soggetti portanti numeri diversi.

Se il libro o la memoria si riferisce a tante di queste subdivisioni che sarà d'uopo accennarle tutte, allora si pone per la subdivisione la parola "generale." La subdivisione dev' essere seguita (*a*) dal nome dell' autore, (*b*) dal titolo, ossia dal titolo modificato, del lavoro.

Esempio—

N 6015 [Regeneration]
Lange, C. Experiments on regeneration [of kidneys]. (Danish) Kjøbenhavn, Biol. Forh., 1899–1900, 1901, (1–8)

Se questa scheda si manda all' Ufficio Centrale attaccata alla scheda a titolo corrispondente si deve abbreviare, come si è spiegato qui sopra, a :—

N 6015 [Regeneration]
Lange, C. Experiments on regeneration [of kidneys]. (Danish) (1–8).

(3) *Schede sistematiche.*—Su queste schede il nome dell' animale o degli animali deve seguire immediatamente il numero di registrazione. Se si fa menzione di più di un genere bisogna far una scheda separata per ogni genere.

Ciascun nuovo genere deve avere una scheda separata ; il nome del nuovo genere dev' essere seguito dalla indicazione "n. gen.," poi viene una breve indicazione di quello cui esso si connette, e qualche indicazione delle specie che include, e seguo infine il nome dell' autore e la riferenza.

I nuovi sottogeneri saranno trattati in modo simile ai nuovi generi, ma sarà adoperata la indicazione "n. subgen.," e seguirà il nome del genere del quale il sottogenere è divisione.

The author's name should *follow* the title or modified title on these slips.

Examples—

(I) N 2631.
Amblyops crozetii, bipolar occurrence. **Ohlin**, A. Ann. Mag. Nat. Hist., London, (Ser. 7). **7**, 1901, (371–374).
[Schizopoda.]

(II) N 4431.
Heterephrya neximargo sp. n. Peru. **Warren**, W. Nov. Zool., Tring, **8**, 1901, (457).
[Geometridae.]

When more than one new species is described from the same genus, all the new species should be mentioned on the slip and the respective page references given. Where only one new species is mentioned the slip should be arranged as in Example II. In any case the habitat should be given where possible.

At the end of each slip the name of the group of animals referred to should be given. When the work gives no indication of the group (*i.e.*, Family, Sub-family or Tribe) and the slip-maker cannot from his own knowledge supply the deficiency the sign [?] may be written at the end of the slip.

When it is undesirable to index each genus separately a general entry should be given.

Example—

N 4431.
Hoyningen-Huene, F. von. Aberrationen einiger estländischer Eulen und Spanner. Berliner ent. Zs., **46**, 1901, (309–319, mit 1 Taf.).
[Noctuidae.]

On systematic slips Christian names should be represented by initials only.

Slips relating to fossil forms are to be marked †, and slips relating to fossil and recent forms†*. (The latter condition occurs only rarely in this division.)

Bei diesen Zetteln sollte der Verfassername auf den Titel oder modifizierten Titel *folgen*.

Beispiele—

(I) N 2631.
Amblyops crozetii, bipolar occurrence. **Ohlin**, A. Ann. Mag. Nat. Hist., London, (Ser. 7), **7**, 1901, (371–374).
[Schizopoda.]

(II) N 4431.
Heterephrya neximargo sp. n. Peru. **Warren** W. Nov. Zool., Tring, **8**, 1901, (457).
[Geometridae.]

Wird mehr als eine neue Art derselben Gattung beschrieben, so sollen sämtliche neue Arten, mit Angabe der betreffenden Seiten-Zahlen, auf dem Zettel erwähnt werden. Wo es sich blos um eine neue Art handelt, ist der Zettel wie in Beispiel II herzustellen. Das Habitat ist auf jeden Fall wenn möglich anzugeben.

Am Ende eines jeden System-Zettels ist der Name der betreffenden Tiergruppe anzuführen. Enthält die Arbeit keine Angabe der Gruppe (d.h. Familie, Unterfamilie oder Tribus) und ist der Zettelschreiber nicht im stande, aus eigener Kentniss die Lücke auszufüllen, so kann das Zeichen [?] an das Ende des Zettels gesetzt werden. Ist die gesonderte Angabe einer jeden Gattung nicht wünschenswert, so ist eine allgemeine Bezeichnung zu geben.

Beispiel—

N 4431
Hoyningen-Huene, F. von. Aberrationen einiger estländischer Eulen und Spanner. Berliner ent. Zs., **46**, 1901, (309–319, mit 1 Taf.).
[Noctuidae.]

Auf den System-Zetteln sollen die Vornamen nur durch Anfangsbuchstaben wiedergegeben werden.

Zettel, die sich auf fossile Formen beziehen, sind durch ein† zu bezeichnen; solche, die sich sowohl auf fossile als auf recente Formen beziehen, durch ein†*. (Der letzte Fall kommt in diesem Abschnitt nur selten vor.)

Le nom d'auteur doit *suivre* le titre ou le titre modifié sur ces fiches.

Exemples—

(I) N 2631.

Amblyops crozetii, bipolar occurrence. **Ohlin, A.** Ann. Mag. Nat. Hist., London, (Ser. 7), **7**, 1901, (371-374). [Schizopoda.]

(II) N 4431.

Heterophrya neximargo sp. n. Peru. **Warren, W.** Nov. Zool., Tring, **8**, 1901, (457). [Geometridae.]

Quand il y a description de plus d'une espèce du même genre, toutes les espèces nouvelles doivent être portées sur la fiche avec le renvoi aux pages respectives. S'il ne s'agit que d'une seule espèce nouvelle la fiche doit être établie conformément à exemple II. L'habitat doit être indiqué en tout cas si possible. L'on devra placer à la fin de chaque fiche systématique le nom du groupe d'animaux auquel la fiche se rapporte. Quand l'ouvrage ne fournit aucune indication de groupe (famille, sous-famille ou tribu) et lorsque le rédacteur de la fiche ne peut, d'après ses propres connaissances, suppléer à ce défaut d'indications, l'on pourra mettre le signe [?] à la fin de la fiche.

S'il n'est pas à désirer que chaque genre soit catalogué séparément il faut établir un article général.

Exemple—

N 4431.

Hoyningen-Huene, F. von. Aberrationen einiger estländischer Eulen und Spanner. Berliner ent. Z., **46**, 1901, (309-319, mit 1 Taf.). [Noctuidae.]

Sur les fiches systématiques les noms de baptême doivent être représentés par des initiales seulement.

Les fiches relatives aux formes fossiles doivent être marquées †, et celles qui se rapportent aux formes fossiles récentes † *. (Cette dernière condition ne se présente que rarement dans cette division.)

Su queste schede il nome dell'autore deve venire *dopo* il titolo o titolo modificato.

Esempi—

(I) N 2631.

Amblyops crozetii, bipolar occurrence. **Ohlin, A.** Ann. Mag. Nat. Hist., London, (Ser. 7), **7**, 1901, (371-374). [Schizopoda.]

(II) N 4431.

Heterophrya neximargo sp. n. Peru. **Warren, W.** Nov. Zool., Tring, **8**, 1901, (457). [Geometridae.]

Quando si descrive più di una specie nuova del medesimo genere, tutte le specie nuove devono venire accennate sulla scheda colla referenza alle pagine rispettive. Trattandosi di una sola specie nuova, la scheda dev' essere redatta come in esempio II. In ogni caso, per quanto sia possibile, si deve menzionare il habitat.

Al fine di ciascuna scheda sistematica si deve porre il nome del gruppo di animali cui la scheda si riferisce. Quando il lavoro non porta indicazione del gruppo (sub-famiglia, sottofamiglia, tribù) e il redattore della scheda non può di suo supplire alla deficienza, si può mettere al fine della scheda il segno [?].

Quando non si vuole catalogare separatamente ogni genere, si farà un'annotazione generale.

Esempio—

N 4431.

Hoyningen-Huene, F. von. Aberrationen einiger estländischer Eulen und Spanner. Berliner ent. Z., **46**, 1901, (309-319, mit 1 Taf.). [Noctuidae.]

I nomi di battesimo devono essere rappresentati sulle schede sistematiche solo iniziali.

Le schede relative a forme estinte saranno segnate †, e le schede relative a forme estinte e viventi †* (L'ultima condizione ricorre soltanto raramente in questa divisione.)

(4) *Lists of New Genera and Species.*—For the preparation of these lists, the Regional Bureaus should give the names of genera and sub-genera (*a*) which are new, (*b*) the significance of which has been changed, (*c*) which contain new species. These may be written at the foot of the systematic slips, but it would greatly facilitate an earlier production of the volume if the Regional Bureaus would write each new genus on a separate card and attach it to the systematic slip.

(4) *Listen neuer Gattungen und Arten.*—Zur Herstellung dieser Listen sollten die Regionalbureaus die Namen der Gattungen und Untergattungen angeben, (*a*) die neu sind, (*b*) deren Bedeutung sich geändert hat, (*c*) die neue Arten enthalten. Diese können am Fusse der System-Zettel angeführt werden, es würde jedoch zur schnelleren Erscheinung des Bandes wesentlich beitragen, wenn die Regionalbureaus jede neue Gattung auf einem besonderen Zettel schrieben und diesen an den System-Zettel hefteten.

Date of Receiving Slips.

The period during which the material for any one year will be received at the Central Bureau will not extend beyond June of the following year. Regional Bureaus are therefore earnestly requested to complete the indexing of their zoological literature within the time named.

The period covered by the literature indexed in any one of the annual volumes shall be from January 1st to December 31st of the particular year, but any matter which had not been received in time for insertion in the previous volume shall also be included therein.

Termin des Empfangs der Zettel.

Das Material für irgend ein Jahr darf nicht später als Ende Juni des folgenden Jahres in den Besitz des Centralbureaus gelangen. Die Regionalbureaus werden daher dringend ersucht, mit dem Katalogisieren ihrer zoologischen Literatur bis zu dem genannten Termin fertig zu werden.

Die in irgend einem der jährlichen Bände veröffentlichte Litteratur soll die Periode vom 1. Januar bis zum 31 December des betreffenden. Jahres decken, etwaige Artikel aber, die für den vorigen Band zu spät eintrafen, werden darin mit aufgenommen.

Distinctive Character of cards.

The editorial work will be greatly facilitated by ruling a red line near the left-hand edge of the title slips, a green line near the left-hand edge of the subject slips, and no line at all on the taxonomy and new species slips. Or the slips may be printed on thin card of three colours, viz., red for the title slips, green for the subject slips, and white for the systematic slips. The size of the slips must be 16 cm. by 8 cm.

Markierung der Zettel.

Die Herausgabe wird bedeutend erleichtert werden, wenn auf den Titel-Zetteln nahe dem linken Rande eine rothe Linie, auf den Sach-Zetteln entsprechend eine grüne Linie gezogen wird, während die Taxonomie- und Arten-Zettel ohne Linie bleiben. Man kann auch die Zettel auf drei verschiedenfarbige Sorten Carton drucken, nämlich die Titel-Zettel auf roten, die Sach-Zettel auf grünen und die System-Zettel auf weissen.

Die Zettel müssen 16 × 8 cm. gross sein.

(4) *Listes des genres et espèces nouvelles.*—Pour la rédaction de ces listes les Bureaux Régionaux doivent donner les noms des genres et sous-genres (*a*) qui sont nouveaux, (*b*) dont la signification est changée, (*c*) qui contiennent des espèces nouvelles. Ils peuvent être écrits au pied des fiches systématiques, pourtant si les Bureaux Régionaux voulaient écrire chaque genre nouveau sur une fiche séparée et l'attacher à la fiche systématique, cela contribuerait beaucoup à accélérer la publication du volume.

(4) *Elenchi di Generi e Specie nuove.*—Per la redazione di questi elenchi gli Uffici Regionali devono dare i nomi dei generi e sottogeneri, (*a*) che sono nuovi, (*b*) il cui significato si è cambiato, (*c*) che contengono delle specie nuove. Questi possono essere scritti in fondo alle schede sistematiche, ma contribuirebbe molto ad accelerare la pubblicazione del tomo se gli Uffici Regionali scrivessero ogni genere nuovo sopra una scheda separata e attaccassero questa alla scheda sistematica.

Date de la réception des fiches.

La période pendant laquelle les matières pour une année quelconque seront admises par le Bureau Central ne s'étendra pas au-delà du mois de juin de l'année suivante. Aussi les Bureaux Régionaux sont-ils instamment priés de compléter l'index de leur littérature zoologique avant l'expiration de ce terme.

La littérature indexée dans un volume annuel quelconque comprendra la période du 1er janvier au 31 décembre de l'année en question, ainsi que les articles qui étaient arrivés trop tard pour être incorporés dans le volume précédent.

Data di ricezione delle schede.

Il periodo durante il quale il materiale per un anno qualunque sarà ammesso dall' Ufficio Centrale non si stenderà in là di Giugno dell'anno seguente. Gli Uffici Regionali sono perciò pregati con istanza di completare il catalogo della loro letteratura zoologica dentro del detto termine.

La letteratura catalogata in un tomo annuale qualunque comprenderà il periodo dal 1° Gennaio al 31 Dicembre dell' anno di cui si tratta, coll' aggiunto di quegli articoli che fossero ricevuti troppo tardi per essere inclusi nel tomo precedente.

Caractère distinctif des fiches.

Le travail du Directeur sera grandement facilité si l'on trace une ligne rouge près du bord gauche des fiches de titre, une ligne verte près du bord gauche des fiches de matière, et si l'on ne trace aucune ligne sur les fiches systématiques et sur les fiches pour les espèces nouvelles. On peut aussi imprimer les fiches sur des cartons minces de trois couleurs, savoir, une carte rouge pour les fiches de titre, une carte verte pour les fiches de matière, et une carte blanche pour les fiches systématiques.

Les dimensions des fiches doivent être de 16 cm. sur 8 cm.

Carattere distintivo delle schede.

Il lavoro dell' Ufficio Centrale sarà grandemente facilitato dal segnare il margine sinistro delle schede a titolo con una linea rossa, quello delle schede a soggetto con una verde, e dal lasciare senza linea le schede tassonomiche e quelle per le specie nuove. Oppure le schede potranno essere scritte su carta di tre colori, rosso, verde, e bianco, il primo per le schede a titolo, il secondo per quelle a soggetto, il terzo per quelle sistematiche.

Il formato delle schede dev'essere di 16 per 8 centimetri di lato.

0000-0231. Comprehensive Zoology.

N.B.—The subjects enumerated under numbers 0000 to 0231 may recur in any one of the subsequent Branches. In the Catalogue only works that deal with several Branches will be registered under numbers 0000 to 0231; hence the term "Comprehensive Zoology."

HYPERZOOLOGY.

0000 Philosophy.

0010 History. Biography.

0020 Periodicals. Reports of Institutions, Societies, Congresses, Explorations.

0030 General Treatises, Text-books, Dictionaries, Collected Works, Tables.

0032 Bibliographies.

0040 Addresses, Lectures, etc., of a general character.

0050 Pedagogy.

0060 Institutions, Museums, Collections, Aquaria, Gardens, Utility and Harmfulness, Zoology in relation to Medicine, etc. (*See also* the general sections of Special Zoology.)

0070 Nomenclature (principles of).

0090 Technique. Methods of research, instruments and apparatus.

0207 STRUCTURE (OR MORPHOLOGY). [In general or of more than one of the classes of animals.] (*See also* (L) General Biology (O) Anatomy and (Q) Physiology.)

General; Comparative Anatomy; Special Anatomy and Histology: Tegument and its Organs; Nervous System and Organs of Sense; Myology; Skeleton (including Osteology and Dentition); Skeletal Structures of Invertebrates; Alimentary System; Circulatory and Respiratory Organs; Water Vascular System, Blood, Lymph, Cœlomic Fluid, Chyle. Special Glands; Excretory Organs; Reproductive Organs; Special External Characters; Colour. Rudimentary or Vestigial Organs, and Organs of uncertain nature.

0000-0231. Allgemeine Zoologie.

N.B.—Die unter Nr. 0000 bis 0231 aufgeführten Gegenstände können in jedem der nachfolgenden Zweige wiederkehren. Unter Nr. 0000-0231 bringt der Katalog nur solche Arbeiten, die mehrere Zweige behandeln. Daher der Ausdruck „Allgemeine Zoologie."

HYPERZOOLOGIE.

Philosophie.

Geschichte. Biographien.

Periodica. Berichte von Instituten, Gesellschaften, Kongressen, Forschungsreisen etc.

Allgemeine Abhandlungen, Lehrbücher, Wörterbücher, Sammelwerke, Tabellen.

Bibliographien.

Festreden, Vorträge u s.w., allgemeiner Art.

Pädagogik.

Institute, Museen, Sammlungen, Aquarien, Gärten, Nützlichkeit und Schädlichkeit, Zoologie in Beziehung zur Medizin etc. (*Siehe auch* die allgemeinen Abteilungen der speciellen Zoologie.)

Nomenklatur (Prinzipien).

Technik. Untersuchungsmethoden. Instrumente and Apparate.

STRUKTUR (ODER MORPHOLOGIE). [Im allgemeinen oder von mehreren Tierklassen.] (*Siehe auch* (L) Allgemeine Biologie, (O) Anatomie und (Q) Physiologie.)

Allgemeines; Vergleichende Anatomie; Specielle Anatomie und Histologie: Tegument und seine Organe; Nervensystem und Sinnesorgane; Myologie; Skelett (einschl. Osteologie und Zahnbildung); Inneres Skelett bei Wirbellosen; Ernährungssystem; Circulations- und Respirationsorgane; Wassergefässsystem, Blut, Lymphe, Cœlomflüssigkeit, Chylus. Specielle Drüsen; Excretions-Organe; Reproduktive Organe; Specielle äussere Charactere; Farbe. Rudimentäre oder unentwickelte Organe und Organe ungewisser Natur.

0000-0231. Zoologie générale.

N.B. — Les sujets énumérés sous les indices 0000 à 0231 peuvent être représentés dans chacune des "branches" suivantes; mais c'est seulement les ouvrages ayant trait à plusieurs "branches" qui doivent être catalogués sous les numéros 0000 à 0231; de là le terme de "Zoologie générale."

HYPERZOOLOGIE.

0000 Philosophie.

0010 Histoire. Biographie.

0020 Périodiques. Rapports d'Institutions, de Sociétés, de Congrès, d'Explorations, etc.

0030 Traités généraux, Manuels, Dictionnaires, Recueils, Tables.

0032 Bibliographies.

0040 Discours, Cours, etc., d'un caractère général.

0050 Enseignement.

0060 Institutions, Musées, Collections, Aquaria, Jardins, Utilité et Nocivité. Zoologie en rapport avec la Médecine, etc. (*Voy. aussi* les sections générales de la Zoologie spéciale.)

0070 Nomenclature (principes de).

0080 Technique. Méthodes de recherche, instruments et appareils.

0207 STRUCTURE (OU MORPHOLOGIE). (En général ou dans plusieurs classes d'animaux.) (*Voy. aussi* (L) Biologie Générale, (O) Anatomie et (Q) Physiologie.)

Généralités; Anatomie comparée; Anatomie spéciale et Histologie (*ex.* organes tégumentaires); Système nerveux et organes des sens; Myologie; Squelette (y compris Ostéologie et Dentition); Structure des Invertébrés; Système digestif; Appareils de la circulation et de la respiration; Système aquifère vasculaire, sang, lymphe, liquide de la cavité générale, cœur, Glandes spéciales; Organes d'excrétion; Organes de reproduction; Organes externes spéciaux; Couleur. Organes rudimentaires ou vestiges d'organes anciens; Organes de nature incertaine.

0000-0231. Zoologia comprensiva.

I soggetti designati sui numeri 0000 a 0231 possono ricorrere in ognuno dei seguenti rami. Nel catalogo, tuttavia, soltanto i lavori che trattano di diversi rami saranno registrati sotto i numeri 0000 a 0231; di qui il termine "Zoologia comprensiva."

IPERZOOLOGIA.

Filosofia.

Storia. Biografia.

Periodici. Resoconti di Istituti, Società, Congressi, Esplorazioni.

Trattati generali, Libri di testo, Dizionari, Raccolte, Tavole.

Bibliografia.

Discorsi, Lezioni, etc., aventi un carattere generale.

Pedagogia.

Istituti, Musei, Collezioni, Acquaria, Giardini, Utilità e Nocività. Zoologia in rapporto alla medicina. (*Vedi anche* le sezioni generali della Zoologia speciale.)

Principî di Nomenclatura.

Tecnica. Metodi di ricerca, istrumenti ed apparecchi.

STRUTTURA (O MORFOLOGIA). (In generale oppure in più di una classe di animali.) (*Vedi anche* (L) Biologia Generale, (O) Anatomia e (Q) Fisiologia.)

Generalità; Anatomia comparata, Anatomia speciale e Istologia; Tegumento e suoi organi; Sistema nervoso e organi di senso; Miologia; Scheletro (incl. Osteologia e Dentizione); Strutture interne scheletriche degli invertebrati; Apparecchio alimentare; Organi della circolazione e della respirazione; Sistema acquifero vascolare, Sangue, Linfa, Liquido celomatico, Cuore; Ghiandole speciali; Organi escretori; Organi riproduttori; Caratteri speciali esterni; Colore. Organi rudimentali e in regressione e organi di natura incerta.

0211 PHYSIOLOGY [of the Animal Kingdom, or of more than one of its Branches]. (*See also* (Q) Physiology.)

[Physiology will be treated as a separate science. In zoology it is therefore only necessary to collect those physiological memoirs that specially interest zoologists; hence a detailed division is superfluous, but the following may be cited as examples to come under this heading.]

General; Production of Sex; Production of Caste; Function of Sense Organs; Function of Special Organs and Structures, *e.g.*, of Glands; Assimilation; Respiration; Environmental Effects; Change of Function; Adaptation. Duration of Life; Senescence; Death.

PHYSIOLOGIE [des Tierreichs oder mehrerer seiner Zweige]. (*Siehe auch* (Q) Physiologie.)

[Physiologie wird als besondere Wissenschaft behandelt werden. In „ Zoologie " brauchen daher nur solche physiologische Abhandlungen aufgeführt zu werden, die speciell den Zoologen interessieren. Darum ist eine detaillierte Einteilung hier überflüssig, doch mag das Folgende als Beispiel dienen.]

Allgemeines; Hervorbringung des Geschlechtes, der Rasse; Funktion der Sinnesorgane; Funktion besonderer Bildungen, z. B. Drüsen; Assimilation; Atmung; Wirkung der Umgebung; Funktionswechsel; Anpassung. Lebensdauer; Altern; Tod.

0215 DEVELOPMENT. [General works on more than one of the Branches.] (*See also* L 2000–5900; O 1500–1940.)

General; Budding and Asexual Reproduction; Oogenesis and Ovum; Spermatogenesis and Spermatozoon; Phenomena of Fertilization; Parthenogenesis; Embryology, Organogeny and Histogeny; Metamorphosis and Larval Forms; Postembryonic Ontogeny; Alternation of Generations; Pædogenesis; Dissogony; Cycles of Generations; Changes during Life; Regeneration; Hermaphroditism.

For cell-structure and processes *see* (L) General Biology—Cytology.

ENTWICKELUNG. [Allgemeine Werke über mehr als einen der Zweige.] (*Siehe auch* L 2000–5900; O 1500–1940.)

Allgemeines; Knospenbildung und ungeschlechtliche Fortpflanzung; Oogenesis und Ovum; Spermatogenesis und Spermatozoon; Befruchtungs-Phänomene; Parthenogenesis; Embryologie, Organogenie und Histogenie; Metamorphose und Larvenformen; postembryonale Ontogenie; Generationswechsel; Pædogenesis; Dissogonie; Generations-Cyklen; Veränderungen während des Lebens; Regeneration; Hermaphroditismus.

Zell-Struktur und -Processe *siehe* (L) Allgemeine Biologie—Cytologie.

0219 ETHOLOGY. [Works dealing with one or more of the following subjects, and relating to more than one Branch of the Animal Kingdom.]

General; Habits; Phenology; Migration and Nonmigration; Hibernation; Parental Relations; Sexual Relations; Sexual Dimorphism; Oviposi-

ETHOLOGIE. [Arbeiten, die einen oder mehrere der folgenden Gegenstände behandeln und sich auf mehr als einen Zweig des Tierreichs beziehen.]

Allgemeines; Lebensgewohnheiten; Phänologie; Wanderung und Nichtwanderung; Winterschlaf; Beziehungen zwischen Eltern und Nachkommenschaft;

0211 PHYSIOLOGIE [du règne animal ou de plusieurs branches du règne animal]. (*Voy. aussi* (Q) Physiologie.)

[La Physiologie doit être traitée comme une science distincte; en conséquence, en Zoologie il ne sera nécessaire de relever que les mémoires de physiologie qui intéressent spécialement les zoologistes; une division détaillée est donc superflue, néanmoins on peut citer la suivante comme exemple.]

Généralités; Production des sexes; Formation des genres; Fonctions des organes des sens; Fonctions des organes de structure spéciale (*ex.* des glandes); Assimilation; Respiration; Influence du milieu; Changement de fonction; Adaptation; Durée de la vie; Sénescence; Mort.

FISIOLOGIA [del Regno animale o di più di uno dei suoi rami]. (*Vedi anche* (Q) Fisiologia)

[La fisiologia sarà trattata come una scienza separata. Nella zoologia è perciò soltanto necessario raccogliere quelle memorie di fisiologia che più specialmente possono interessare lo zoologo; quindi una divisione particolareggiata è superflua, ma ciò che segue può rappresentare la divisione di questo capitolo.]

Generalità; Produzione dei sessi; Produzione di caste; Funzione degli organi di senso; Funzione di speciali organi, *p. es.* le glandule; Assimilazione; Respirazione; Effetti dell' ambiente; Cambiamento di funzione; Adattamento. Durata della vita; Senescenza; Morte.

0215 DÉVELOPPEMENT. [Ouvrages généraux ayant trait à plusieurs "branches."] (*Voy. aussi* L 2000–5900; O 1500–1940.)

Généralités; Bourgeonnement et reproduction asexuée; Ovogenèse et œuf; Spermatogenèse et Spermatozoïdes; Phénomènes de fécondation; Parthenogenèse; Embryologie, organogénie et histogénie; Métamorphose et formes larvaires; Ontogénie postembryonnaire; Générations alternantes; Paslogenèse; Dissogonie; Cycles de générations; Changements pendant la vie; Régénération; Hermaphrodisme.

Pour la structure et les processus cellulaires voir (L) Biologie générale—Cytologie.

SVILUPPO. [Lavori generali su più di uno dei rami.] (*Vedi anche* L 2000–5900; O 1500–1940.)

Generalità; Gemmazione e riproduzione asessuale; Oogenesi e Uovo; Spermatogenesi e Spermatozoide; Fenomeni di Fecondazione; Partenogenesi; Embriologia, organogenia ed istogenia; Metamorfosi e forme larvali; Ontogenia postembrionale; Alternanza delle generazioni; Podogenesi; Dissogonia; Cicli delle generazioni; Cambiamenti durante la vita; Rigenerazione; Ermafroditismo.

Per la struttura cellulare e i processi di sviluppo vedi (L) Biologia generale—Citologia.

0219 ETHOLOGIE. [Ouvrages traitant d'un ou de plusieurs des sujets suivants et se rapportant à un ou à plusieurs embranchements du règne animal].

Généralités; Habitudes; Phénologie; Migration et non-migration; Hibernation; Relations de parenté; Relations sexuelles, Dimorphisme sexuel; Ponte;

ETOLOGIA. [Lavori aventi a che fare con uno o più dei soggetti seguenti e relativi ad uno o più rami del regno animale.]

Generalità; Abitudini; Fenologia; migrazione e non migrazione; ibernazione; rapporti parentali; rapporti sessuali; dimorfismo sessuale

tion ; Voice ; Sound Production ; (*see also* Q 4145). Luminosity ; (*see also* Q 0260). Habitat with sub-divisions, *e.g.*, Cavernicolous Animals, Pelagic and Deep-sea Animals (plankton), etc. ; Instinct and Psychology ; Social Relations ; Gregariousness ; Symbiosis ; (*see also* L 5550 ; Q 0285 ; R 1640) ; Parasitism ; Defensive Processes (including Protective Coloration, Mimicry and Protective Resemblance) ; Ornament and Colour ; Breeding and Acclimatisation.

Sexuelle Beziehungen ; Sexueller Dimorphismus ; Eiablage ; Stimme ; Hervorbringung von Lauten (*siehe auch* Q 4145) : Leuchtvermögen (*siehe auch* Q 0260) ; Habitat mit Unterabteilungen, z. B. Höhlentiere, pelagische und Tiefsee-Tiere (Plankton) u. s. w. ; Instinkt und Psychologie ; Soziale Beziehungen ; Heerdenleben ; Symbiose (*siehe auch* L 5550 : Q 0285 ; R 1640) ; Parasitismus ; Verteidigungs-Processe (einschl. Schutzfärbung, Mimicry und schützende Aehnlichkeiten) ; Schmuck und Farbe ; Züchtung und Akklimatisation.

0223 Variation and Ætiology. [Works dealing with one or more of the following subjects and relating to more than one Branch of the Animal Kingdom.] (*See also* (L) General Biology, and (Q) Physiology.)

Variation und Aetiologie. [Arbeiten, die einen oder mehrere der folgenden Gegenstände behandeln und sich auf mehr als einen Zweig des Tierreichs beziehen.] (*Siehe auch* (L) Allgemeine Biologie und (Q) Physiologie.)

General ; Substantive variation ; size, proportions, form, colour, etc. Meristic variations ; numerical [meristic proper] ; homoeotic ; teratological. Bionomic variation ; of fertility ; of time of appearance ; of maturity ; of development ; of habits. Phylogeny.

Allgemeines ; Substantielle Variation ; Grösse, Proportionen, Form, Farbe etc. Meristische Variationen ; numerische (meristische im eigentlichen Sinne) : homoeotische ; teratologische. Bionomische Variation ; in Hinsicht auf Fruchtbarkeit, auf Erscheinungszeit ; auf Zeit der Reife ; auf Entwickelung ; auf Lebensgewohnheiten. Phylogenie.

Or indexed alternatively or supplementally, with reference to treatment—descriptive, statistical, mathematical ; geographical or stational.

Hierneben oder als Ergänzung eine Einteilung mit Rücksicht auf die Art der Behandlung—ob descriptiv, statistisch, mathematisch ; geographisch oder nach Standort.

Heredity. Grafts. Crosses and Hybrids. In-breeding. Telegony. Evolution. (*See also* K 0200 ; L 4300.)

Vererbung. Pfropfen. Kreuzungen und Bastardbildungen. Inzucht. Telegonie. Evolution. (*Siehe auch* K 0200 ; L 4300.)

0227 Geographical Zoology.

Geographical Distribution. [Works relating to the principles and modes of distribution.]

Geographische Zoologie.

Geographische Verbreitung. [Arbeiten, die sich auf die Prinzipien und die Arten der Verbreitung beziehen.]

Topographical Zoology. [Works relating to the Fauna of one or more of the sub-divisions used in (J) Geography, and dealing

Topographische Zoologie. [Arbeiten, die sich auf die Fauna einer oder mehrerer der Unterabteilungen in (J) Geographie,

Voix ; Productions des sons ; (*Voy aussi* Q 4145.) Production de la lumière ; (*Voy. aussi* Q 0260.) Habitat avec subdivisions, *ex.* Animaux cavernicoles ; Animaux pélagiques et des zones abyssales (plankton), etc. ; Instinct et Psychologie ; Relations sociales ; Instincts sociaux ; Symbiose ; (*Voy. aussi* L 5550 ; Q 0285 ; R 1640); Parasitisme ; Procédés de défense ; Ressemblance (y compris la coloration protectrice, le mimétisme et la ressemblance protectrice) ; Ornements et couleur ; Elevage et acclimatation.

ovi posizione ; voce ; produzione di suoni (*v. anche* Q 4145); luminosità (*v. anche* Q 0260) ; Habitat con suddivisioni, *p. es.* animali cavernicoli, animali pelagici e delle zone abissali (plankton), etc. ; istinto e psicologia ; rapporti sociali ; istinti gregarii ; simbiosi (*v. anche* L 5550 ; Q 0285 ; R 1640), parassitismo ; processi difensivi (compresovi la colorazione protettiva, il mimetismo e la rassomiglianza protettiva) ; ornamenti o colore ; Allevamento ed acclimatazione.

0223 VARIATION ET ETIOLOGIE. [Ouvrages traitant d'un ou de plusieurs des sujets suivants, et ayant trait à plus d'une branche du règne animal.] (*Voy. aussi* (L) Biologie Générale et (Q) Physiologie.)

VARIAZIONE ED ETIOLOGIA. [Lavori aventi a che fare con uno o più dei soggetti seguenti e relativi ad uno o più rami del regno animale.] (*Vedi anche* (L) Biologia Generale e (Q) Fisiologia)

Généralités ; Variations traitées en elles-mêmes ; Taille, proportions, forme, couleur, etc. Variations méristiques ; variations numériques (méristiques proprement dites) ; homeotiques ; tératologiques. Variations bionomiques, variations de fécondité ; variations dans l'époque d'apparition, la maturité, le développement, les habitudes. Phylogénie.

Variations traitées d'une façon supplémentaire dans les ouvrages descriptifs, statistiques, mathématiques, géographiques.

Generalità ; Variazione sostantivamente considerata ; dimensioni, proporzioni, forma, colore, etc. Variazioni meristiche ; numeriche (meristiche vere e proprie) ; omeotiche ; per teratologia. Variazioni bionomiche ; di fecondità ; di epoca di apparizione ; di maturità ; di sviluppo ; di abitudini. Filogenia.

Oppure considerata alternativamente e supplementariamente sotto il punto di vista descrittivo, statistico, matematico, geografico o stazionale.

Hérédité. Greffes. Croisements et Hybrides. Unions consanguines. Télégonie. Évolution. (*Voy. aussi* K 0200 ; L 4300.)

Eredità. Innesti. Incrociamenti e ibridismi. Consanguineità. Telegonia. Evoluzione. (*Vedi anche* K 0200 ; L 4300).

0227 ZOOLOGIE GÉOGRAPHIQUE.

Distribution géographique des animaux. [Ouvrages ayant trait aux principes et aux modes de distribution géographique.]

Zoologie topographique. [Ouvrages ayant trait à la faune d'une ou de plusieurs des subdivisions employées en (J)

ZOOLOGIA GEOGRAFICA.

Distribuzione geografica. [Lavori relativi ai principi e ai modi di distribuzione.]

Zoologia topografica. [Lavori relativi alla Fauna di una o più delle suddivisioni adottate in (J) Geografia, e riferentesi a

with more than one of the Branches of Zoology.]

0231 TAXONOMY or CLASSIFICATION in general.
[In this are to be placed works dealing with the principles of zoological classification ; works discussing the classification of more than one of the Branches ; works dealing with the relations of the great groups of existing animals ; phylogenetic classification, *i.e.*, the relations in time of the great groups of animals. Works relating to the classification of only one of the Branches are to be dealt with in that Branch.]

beziehen und mehr als einen Zweig der Zoologie umfassen.]

TAXONOMIE ODER KLASSIFIKATION IM ALLGEMEINEN.
[Hierher sind Arbeiten zu stellen, welche die Prinzipien der zoologischen Klassifikation behandeln ;. ferner Arbeiten, welche die Klassifikation von mehr als einem der Zweige discutieren ; Arbeiten, welche die Beziehungen der grossen Gruppen der lebenden Tierwelt behandeln ; phylogenetische Klassifikation, d. h. die zeitlichen Beziehungen der grossen Tiergruppen. Dagegen sind Arbeiten, die sich auf die Klassifikation eines einzelnen Zweiges beziehen, bei diesem zu erledigen.]

0400-6031 Special Zoology.

0400-0431 **Protozoa.** (*See also* R 1200.)

The principal divisions are :—
Mycetozoa ; Rhizopoda (Radiolaria, Heliozoa, Foraminifera, Amœbaea, Proteomyxa) ; Sporozoa (Gregarinida, Coccidiidea, Haemosporidia, Myxosporidia, Sarcosporidia) ; Mastigophora (Flagellata, Dinoflagellata) ; Infusoria (Acinetaria, Ciliata).

0600-0631 **Porifera** (or **Spongida**).

The principal divisions are :—
Calcarea ; Hexactinellida ; Demospongiae (Carnosa, Tetractinellida, Monaxonida, Keratosa, Myxospongida).

0800-0831 **Coelenterata** (or **Cnidaria**).

The principal divisions are :—
Graptolites ; Hydromedusae ; Scyphomedusae ; Monticuliporidae ; Stromatoporidae ; Alcyonaria ; Zoantharia ; Ctenophora.

1000-1031 **Echinodermata.**

The principal divisions are :—
Cystoidea ; Crinoidea ; Blastoidea ; Asteroidea ; Ophiuroidea ; Echinoidea ; Holothurioidea.

0400-6031 Specielle Zoologie.

Protozoa. (*Siehe auch* R 1200.)

Hauptabteilungen sind :—
Mycetozoa ; Rhizopoda (Radiolaria, Heliozoa, Foraminifera, Amœbaea, Proteomyxa) ; Sporozoa (Gregarinida, Coccidiidea, Haemosporidia, Myxosporidia, Sarcosporidia) ; Mastigophora (Flagellata, Dinoflagellata) ; Infusoria (Acinetaria, Ciliata).

Porifera (oder **Spongida**).

Hauptabteilungen sind :—
Calcarea ; Hexactinellida ; Demospongiae (Carnosa, Tetractinellida, Monaxonida, Keratosa, Myxospongida).

Cœlenterata (oder **Cnidaria**).

Hauptabteilungen sind :—
Graptolites ; Hydromedusæ ; Scyphomedusæ ; Monticuliporidæ ; Stromatoporidæ ; Alcyonaria ; Zoantharia ; Ctenophora.

Echinodermata.

Hauptabteilungen sind :—
Cystoidea ; Crinoïdea ; Blastoidea ; Asteroidea ; Ophiuroidea ; Echinoidea ; Holothurioidea.

Géographie et ayant trait à plus d'une branche de la Zoologie.]

0231 TAXONOMIE ou CLASSIFICATION en général.

[Dans cette division doivent être placés les ouvrages traitant des principes de la classification zoologique ; les ouvrages discutant la classification de plus d'une "branche" ; les ouvrages traitant des relations des grands groupes d'animaux de la faune actuelle ; la classification phylogénétique, c'est à dire les relations anciennes entre les grands groupes d'animaux. Les ouvrages ayant trait à la classification d'une branche isolée seront traités à propos de cette branche.]

più di uno dei rami della zoologia.]

TASSONOMIA E CLASSIFICAZIONE IN GENERALE.

[Qui saranno posti i lavori che trattano dei principi della classificazione zoologica ; i lavori discutenti la classificazione di più di un ramo ; i lavori riguardanti le relazioni tassonomiche dei grandi gruppi degli animali esistenti ; la classificazione filogenetica, ossia le relazioni nel tempo dei grandi gruppi di animali. I lavori relativi alla classificazione di uno solo dei rami sono trattati in quel ramo.]

0400-6031. Zoologie spéciale.

0400-0431 **Protozoaires.** (*Voy. aussi* R 1200.)

Voici les divisions principales :—
Mycétozoaires ; Rhizopodes (Radiolaires, Héliozoaires, Foraminifères, Amœbiens, Protéomyxes) ; Sporozoaires (Grégarinides, Coccidiides, Haemosporidies, Myxosporidies, Sarcosporidies) ; Mastigophores (Flagellés, Dinoflagellés) ; Infusoires (Acinétiens, Ciliés).

0600-0631 **Porifères** (ou **Spongiaires**).

Voici les divisions principales :—
Calcaires ; Hexactinellides ; Démospongiaires (Carnosa, Tetractinellides, Monaxonides, Kératosa, Myxosponginires).

0800-0831 **Cœlentérés** (ou **Cnidaria**).

Voici les divisions principales :—
Graptolites ; Hydroméduses ; Scyphoméduses ; Monticuliporides ; Stromatoporides ; Alcyonaires ; Zoanthaires ; Cténophores.

1000-1031 **Échinodermes.**

Voici les divisions principales :—
Cystoïdes ; Crinoïdes ; Blastoïdes ; Asteroïdes ; Ophiuroïdes ; Echinoïdes ; Holothurioïdes.

0400-6031. Zoologia Speciale.

Protozoa. (*Vedi anche* R 1200.)

Le divisioni principali sono :—
Mycetozoa ; Rhizopoda (Radiolaria, Heliozoa, Foraminifera, Amœbaea, Proteomyxa) ; Sporozoa (Gregarinida, Coccidiidea, Haemosporidia, Myxosporidia, Sarcosporidia) ; Mastigophora (Flagellata, Dinoflagellata) ; Infusoria (Acinetaria, Ciliata).

Porifera (vel **Spongida**).

Le divisioni principali sono :—
Calcarea ; Hexactinellida ; Demospongiae (Carnosa, Tetractinellida, Monaxonida, Keratosa, Myxospongida).

Cœlenterata (vel **Cnidaria**).

Le divisioni principali sono : —
Graptolites ; Hydromedusae ; Scyphomedusae ; Monticuliporidae ; Stromatoporidae ; Alcyonaria ; Zoantharia ; Ctenophora.

Echinodermata.

Le divisioni principali sono :—
Cystoidea ; Crinoidea ; Blastoidea ; Asteroidea ; Ophiuroidea ; Echinoidea ; Holothurioidea.

1200–1231 **Platyhelminthes. Mesozoa** and **Trichoplax.**

The principal divisions are :—
Platyhelminthes (Turbellaria, Trematoda, Cestoda, Nemertinea) ; Mesozoa (Dicyemidae, Orthonectidae) ; *Trichoplax.*

1400–1431 **Nemathelminthes.**

The principal divisions are :—
Nematoda ; Nematomorpha (or Gordiidae) ; Acanthocephala.

1600–1631 **Chaetognatha. Rotifera. Gastrotricha. Kinorhyncha** (or **Echinodera.**)

1800–1831 **Archiannelida. Polychaeta. Myzostomaria. Oligochaeta. Gephyrea. Phoronis. Hirudinea.**

2000–2031 **Brachiopoda. Bryozoa** (or **Polyzoa**).

The principal divisions are :—
Brachiopoda.
Bryozoa : Entoprocta ; Ectoprocta (Gymnolaema : Cyclostomata, Trepostomata, Cryptostomata, Cheilostomata, Ctenostomata ; Phylactolaema).

2200–2231 **Mollusca.**

The principal divisions are :—
Lamellibranchiata (or Pelecypoda) (Order should be given) ; Scaphopoda ; Amphineura.
Gastropoda includes Prosobranchiata (Rhipidoglossa, Ptenoglossa, Taenioglossa, Rachiglossa, Toxoglossa) ; Heteropoda ; Opisthobranchiata (Tectibranchiata, Nudibranchiata) ; Pteropoda ; Pulmonata (Bassomatophora, Stylommatophora). Families of Prosobranchiata and Pulmonata should be mentioned. *See* Cambridge Natural History.
Cephalopoda includes Nautiloidea, Ammonoidea, Dibranchiata.

2400–2431 **Arthropoda.**

2431 will not include a systematic arrangement of genera and species.

Platyhelminthes. Mesozoa und **Trichoplax.**

Hauptabteilungen sind :—
Platyhelminthes (Turbellaria, Trematoda, Cestoda, Nemertinea) ; Mesozoa (Dicyemidæ, Orthonectidæ) ; *Trichoplax.*

Nemathelminthes.

Hauptabteilungen sind :—
Nematoda ; Nematomorpha (oder Gordiidæ) ; Acanthocephala.

Chætognatha. Rotifera. Gastrotricha. Kinorhyncha (oder **Echinodera**).

Archiannelida. Polychæta. Myzostomaria. Oligochæta. Gephyrea. Phoronis. Hirudinea.

Brachiopoda. Bryozoa (oder **Polyzoa**).

Hauptabteilungen sind :—
Brachiopoda.
Bryozoa : Endoprocta ; Ectoprocta (Gymnolaema : Cyclostomata, Trepostomata, Cryptostomata, Cheilostomata, Ctenostomata ; Phylactolaema).

Mollusca.

Hauptabteilungen sind :—
Lamellibranchiata (oder Pelecypoda) (Ordnung angeben) ; Scaphopoda ; Amphineura.
Gastropoda umfasst Prosobranchiata (Rhipidoglossa, Ptenoglossa, Taenioglossa, Rachiglossa, Toxoglossa ; Heteropoda ; Opisthobranchiata (Tectibranchiata, Nudibranchiata) ; Pteropoda ; Pulmonata (Bassomatophora, Stylommatophora). Familien der Prosobranchiata und Pulmonata angeben. *Siehe* Cambridge Natural History.

Cephalopoda umfasst Nautiloidea, Ammonoidea, Dibranchiata.

Arthropoda.

2431 wird eine systematische Anordnung der Gattungen und Arten nicht enthalten.

1200-1231 **Platyhelminthes. Mésozoaires et le Trichoplax.**

Voici les divisions principales :—
Platyhelminthes (Turbellariés, Trématodes, Cestodes, Némertiens) ; Mésozoaires (Dicyemidæ, Orthonectidæ) ; *Trichoplax*.

Platyhelminthes. Mesozoa et Trichoplax.

Le divisioni principali sono :—
Platyhelminthes (Turbellaria, Trematoda, Cestoda, Nemertinea) ; Mesozoa (Dicyemidæ, Orthonectidæ) ; *Trichoplax*.

1400-1431 **Némathelminthes.**

Voici les divisions principales :—
Nématodes ; Nématomorphes (ou Gordiens) ; Acanthocéphales.

Nemathelminthes.

Le divisioni principali sono :—
Nematoda ; Nematomorpha (vel Gordiidæ) ; Acanthocephala.

1600-1631 **Chætognathes. Rotifères. Gastrotriches. Kinorhynques (ou Echinodéres).**

Chætognatha. Rotifera. Gastrotricha. Kinorhyncha (vel Echinodera).

1800-1831 **Archiannélides. Polychètes. Myzostomes. Oligochètes. Géphyriens. Phoronis. Hirudinées.**

Archiannelida. Polychæta. Myzostomaria. Oligochæta. Gephyrea. Phoronis. Hirudinea.

2000-2031 **Brachiopodes. Bryozoaires (ou Polyzoaires).**

Voici les divisions principales :—
Brachiopodes.
Bryozoaires : Entoproctes ; Ectoproctes (Gymnolèmes : Cyclostomes, Trepostomes, Cryptostomes, Cheilostomes, Ctenostomes ; Phylactolèmes).

Brachiopoda. Bryozoa (vel Polyzoa).

Le divisioni principali sono :—
Brachiopoda.
Bryozoa : Entoprocta ; Ectoprocta (Gymnolaema : Cyclostomata, Trepostomata, Cryptostomata, Cheilostomata, Ctenostomata ; Phylactolaema).

2200-2231 **Mollusques.**

Voici les divisions principales :—
Lamellibranches (ou Pélecypodes) (indiquer l'ordre) ; Scaphopodes ; Amphineures.
Les Gastropodes comprennent les Prosobranches (Rhipidoglosses, Ptenoglosses, Taenioglosses, Rachiglosses, Toxoglosses) ; Hétéropodes ; Opisthobranches (Tectibranches, Nudibranches) ; Ptéropodes ; Pulmonés (Basomatophores, Stylommatophores). Indiquer les familles des Prosobranches et des Pulmonés. Vèy. la Cambridge Natural History.
Les Céphalopodes comprennent les Nautiles, Ammonites, Dibranches.

Mollusca.

Le divisioni principali sono :—
Lamellibranchiata (vel Pelecypoda) (indicare l'ordine) ; Scaphopoda ; Amphineura.
Gastropoda includono Prosobranchiata (Rhipidoglossa, Ptenoglossa, Taenioglossa, Rachiglossa, Toxoglossa) ; Heteropoda ; Opisthobranchiata (Tectibranchiata, Nudibranchiata) ; Pteropoda ; Pulmonata (Basomatophora, Stylommatophora). Indicare le famiglie dei Prosobranchiata e Pulmonata. Vedi Cambridge Natural History.
Cephalopoda includono Nautiloidea, Ammonoidea, Dibranchiata.

2400-2431 **Arthropodes.**

2431 ne comprendra pas un arrangement systématique des genres et des especes.

Arthropoda.

2431 non deve includere la disposizione sistematica dei generi e delle specie.

2600–2631 **Crustacea.**

Entomostraca (= Cirripedia, Ostracoda, Copepoda, Phyllopoda).
Leptostraca.
Arthrostraca (or Edriophthalma) (= Amphipoda, Isopoda, Anisopoda).
[Malacostraca (= Thoracostraca + Arthrostraca).]
Thoracostraca (or Podophthalma) includes Decapoda, Schizopoda, Stomatopoda, Cumacea.

2800–2831 **Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.**

3000–3031 **Arachnida.**

Arachnida consists of Scorpionida, Pedipalpi, Palpigradi, Araneida, Solifugae, Chernetida (or Pseudoscorpiones), Phalangida (or Opiliones), Acarida (or Acari).

3200–3231 **Prototracheata (or Onychophora).**

Prototracheata includes only *Peripatus* and its divisions.

3400–3431 **Myriopoda.**

Myriopoda consists of Chilopoda, Diplopoda (= Pselaphognatha and Chilognatha), Symphyla (or Scolopendrella), Pauropoda.

3500–3531 **Insecta.**

3531 will not include a systematic arrangement of genera and species.

3600–3631 **Aptera (or Apterygogenea). Anoplura. Mallophaga. Thysanoptera (or Physopoda). Siphonaptera (or Aphaniptera).**

Aptera, proper, consists of Thysanura and Collembola.

3800–3831 **Orthoptera. Neuroptera. Trichoptera.**

The principal divisions are :—
Orthoptera (Forficulidae or Dermaptera, Hemimeridae, Blattidae, Mantidae, Phasmidae, Gryllidae, Locustidae, Acridiidae).

Crustacea.

Entomostraca (= Cirripedia, Ostracoda, Copepoda, Phyllopoda).
Leptostraca.
Arthrostraca (oder Edriophthalma) (= Amphipoda, Isopoda, Anisopoda).
[Malacostraca (= Thoracostraca + Arthrostraca).]
Thoracostraca (oder Podophthalma) umfasst Decapoda, Schizopoda, Stomatopoda, Cumacea.

Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.

Arachnida.

Arachnida umfasst Scorpionida, Pedipalpi, Palpigradi, Araneida, Solifugae, Chernetida (oder Pseudoscorpiones), Phalangida (oder Opiliones), Acarida (oder Acari).

Prototracheata (oder Onychophora).

Prototracheata umfasst nur *Peripatus* und dessen Abteilungen.

Myriopoda.

Myriopoda umfasst Chilopoda, Diplopoda (= Pselaphognatha und Chilognatha), Symphyla (oder Scolopendrella), Pauropoda.

Insecta.

3531 wird eine systematische Anordnung der Gattungen und Arten nicht enthalten.

Aptera (oder Apterygogenea). Anoplura. Mallophaga. Thysanoptera (oder Physopoda). Siphonaptera (oder Aphaniptera).

Aptera, im eigentlichen Sinne, umfasst Thysanura und Collembola.

Orthoptera. Neuroptera. Trichoptera.

Hauptabteilungen sind :—
Orthoptera (Forficulidæ oder Dermaptera, Hemimeridæ, Blattidæ, Mantidæ, Phasmidæ, Gryllidæ, Locustidæ, Acridiidæ).

2600-2631 **Crustacés.**

Entomostracés (= Cirripèdes, Ostracodes, Copépodes, Phyllopodes).

Leptostracés.

Arthrostracés (ou Edriophthalmes) (= Amphipodes, Isopodes, Anisopodes).

[Malacostracés (= Thoracostracés + Arthrostracés).]

Les Thoracostracés (ou Podophthalmaires), comprennent les Décapodes, Schizopodes, Stomatopodes, Cumacés).

Crustacea.

Entomostraca (= Cirripedia, Ostracoda, Copepoda, Phyllopoda).

Leptostraca.

Arthrostraca (vel Edriophthalma) (= Amphipoda, Isopoda, Anisopoda).

[Malacostraca (= Thoracostraca + Arthrostraca).]

Thoracostraca (vel Podophthalma) includono Decapoda, Schizopoda, Stomatopoda, Cumacea.

2800-2831 **Trilobites. Xiphosures. Eurypterides. Pantopodes. Tardigrades. Linguatulides.**

Trilobita. Xiphosura. Eurypterida. Pantopoda. Tardigrada. Linguatulida.

3000-3031 **Arachnides.**

Les Arachnides comprennent les Scorpionides, Pédipalpes, Palpigrades, Aranéides, Solifuges, Chernétides (ou Pseudoscorpions), Phalangides (ou Opilions), Acariens.

Arachnida.

Arachnida includono Scorpionida, Pedipalpi, Palpigradi, Araneida, Solifuge, Chernetida (vel Pseudoscorpiones), Phalangida (vel Opiliones), Acarida (vel Acari).

3200-3231 **Prototrachéates (ou Onychophores).**

Les Prototrachéates comprennent seulement le genre *Peripatus* et ses divisions.

Prototracheata (vel Onychophora).

Nei Prototracheata è incluso il solo *Peripatus* e le sue divisioni.

3400-3431 **Myriapodes.**

Les Myriapodes comprennent les Chilopodes, Diplopodes (Psélaphognathes et Chilognathes), Symphyliens (ou Scolopendrelles), Pauropodes.

Myriopoda.

Chilopoda, Diplopoda (= Pselaphognatha e Chilognatha), Symphyla (vel Scolopendrella), Pauropoda.

3500-3531 **Insectes.**

3531 ne comprendra pas un arrangement systématique des genres et des espèces.

Insecta.

3531 non deve includere la disposizione sistematica dei generi e delle specie.

3600-3631 **Aptères (ou Aptérygogéniens). Anoploures. Mallophages. Thysanoptères (ou Physopodes). Siphonaptères (ou Aphaniptères).**

Les Aptères proprement dits comprennent les Thysanoures et les Collemboles.

Aptera (vel Apterygogenea). Anoplura. Mallophaga. Thysanoptera (vel Physopoda). Siphonaptera (vel Aphaniptera).

Gli Aptera propriamente detti consistono nei Thysanura e Collembola.

3800-3831 **Orthoptères. Névroptères. Trichoptères.**

Voici les divisions principales :—

Orthoptères (Forficulides ou Dermaptères, Hémimérides, Blattides, Mantides, Phasmides, Gryllides, Locustides, Acridides).

Orthoptera. Neuroptera. Trichoptera.

Le divisioni principali sono :—

Orthoptera (Forficulidæ vel Dermaptera, Hemimeridæ, Blattidæ, Mantidæ, Phasmidæ, Gryllidæ, Locustidæ, Acrididæ).

Neuroptera (Planipennia, Embiidae, Termitidae, Psocidae, Perlidae, Ephemeridae, Odonata).

Each slip relating to Neuroptera should also state to which of these divisions it refers.

Most of the Palaeozoic Insects are to be dealt with in this branch.

Neuroptera (Planipennia, Embiidæ, Termitidæ, Psocidæ, Perlidæ, Ephemeridæ, Odonata).

Jeder Zettel für Neuroptera soll auch angeben, auf welche dieser Abteilungen er sich bezieht.

Die meisten der paläozoischen Insekten werden bei diesem Zweige zu behandeln sein.

4000–4031 **Hemiptera (or Rhynchota) excl. Anoplura, which are placed in 3600.**

The principal divisions are :—

Hemiptera Heteroptera and Hemiptera Homoptera. [Phytophthires (Aphidae, Psyllidae, Aleurodidae, Coccidae) are included in Hemiptera Homoptera.]

Families to be mentioned in all cases.

See Cambridge Natural History.

Hemiptera (oder Rhynchota), excl. Anoplura, welche unter 3600 eingeordnet sind.

Hauptabteilungen sind :—

Hemiptera Heteroptera und Hemiptera Homoptera. [Phytophthires (Aphidæ, Psyllidæ, Aleurodidæ, Coccidæ) sind in Hemiptera Homoptera enthalten.]

Familien immer angeben. *Siehe* Cambridge Natural History.

4200–4231 **Diptera (excl. Siphonaptera, which are placed in 3600–3631).**

The slips should be marked with the name of the family of Diptera. *See* Cambridge Natural History.

Diptera (excl. Siphonaptera, welche unter 3600–3631 eingeordnet sind).

Bei den Diptera sind auf den Zetteln die Namen der Familien zu vermerken. *Siehe* Cambridge Natural History.

4400–4431 **Lepidoptera.**

The principal divisions are :—

Rhopalocera ; Heterocera.

The family to be mentioned in all cases. *See* Cambridge Natural History.

Lepidoptera.

Hauptabteilungen sind :—

Rhopalocera ; Heterocera.

Familien immer angeben. *Siehe* Cambridge Natural History.

4600–4631 **Hymenoptera.**

The principal divisions are :—

Aculeata = Anthophila (Apidae Andrenidae), Vespidae (Diploptera), Sphegidae s.l. (Fossoria). Formicidae (Heterogyna). Tubulifera = Chrysididae. Parasitica = Trigonalidae, Proctotrupidae, Pelecinidae, Chalcididae, Ichneumonidae, Braconidae, Megalyridae, Evaniidae, Stephanidae, Cynipidae. Sessiliventres (or Chalastogastra) = Cephidae, Siricidae, Oryssidae, Tenthredinidae.

Hymenoptera.

Hauptabteilungen sind :—

Aculeata = Anthophila (Apidæ Andrenidæ), Vespidæ (Diploptera), Sphegidæ s.l. (Fossoria). Formicidæ (Heterogyna). Tubulifera = Chrysididæ. Parasitica = Trigonalidæ, Proctotrupidæ, Pelecinidæ, Chalcididæ. Ichneumonidæ Braconidæ, Megalyridæ, Evaniidæ, Stephanidæ, Cynipidæ. Sessiliventres (oder Chalastogastra) = Cephidæ, Siricidæ, Oryssidæ, Tenthredinidæ.

Névroptères (Planipennes, Embiides, Termitides, Psocides, Perlides, Ephémérides, Odonates).

Chaque fiche relative aux Névroptères doit aussi indiquer à laquelle de ces divisions elle se rapporte.

La plupart des Insectes paléozoïques devront être traités dans cette branche.

Neuroptera (Planipennia, Embiidae, Termitidae, Psocidae, Perlidae, Ephemeridae, Odonata.)

Ciascuna scheda relativa a Neuroptera deve stabilire a quale di queste divisioni del gruppo si riferisce.

La maggior parte degli insetti paleozoici riferisconsi a questo ramo.

4000–4031 **Hémiptères (ou Rhynchotes) à l'exclusion des Anoploures, qui sont placés sous le numéro 3600.**

Voici les divisions principales :—

Hémiptères Hétéroptères et Hémiptères Homoptères. [Les Phytophthires (Aphides, Psyllides, Aleurodides, Coccides) sont compris dans les Hémiptères Homoptères.]

Indiquer les familles en tout cas.

Voy. Cambridge Natural History.

Hemiptera (vel Rhynchota), exclusi Anoplura, che sono indicati col numero 3600.

Le divisioni principali sono :—

Hemiptera Heteroptera e Hemiptera Homoptera. [Phytophthires (Aphides, Psyllides, Aleurodides, Coccides) sono inclusi in Hemiptera Homoptera.]

Indicare le famiglie in ogni caso.

Vedi Cambridge Natural History.

4200–4231 **Diptères (sauf les Siphonaptères, qui sont placés sous les numéros 3600–3631).**

Les fiches doivent porter le nom de la famille des Diptères. *Voy.* Cambridge Natural History.

Diptera (esclusi Siphonaptera, che sono indicati dai numeri 3600–3631).

Le schede dovranno portare il nome della famiglia dei Diptera cui si riferiscono. *Vedi* Cambridge Natural History.

4400–4431 **Lépidoptères.**

Voici les divisions principales :—

Rhopalocères ; Hétérocères.

Indiquer la famille en tout cas.

Voy. Cambridge Natural History.

Lepidoptera.

Le divisioni principali sono :—

Rhopalocera ; Heterocera.

Indicare la famiglia in ogni caso.

Vedi Cambridge Natural History.

4600–4631 **Hyménoptères.**

Voici les divisions principales :—

Aculeata (ou Parasitaires) — Antophiles (Apides, Andrénides), Vespides (Diplopteres), Sphégides s.l. (Fouisseurs), Formicides (Hétérogynes). Tubulifères — Chrysidides. Parasites — Trigonalides, Proctotrupides, Pélécinides, Chalcidides, Ichneumonides, Braconides, Megalyrides, Evanides, Stéphanides, Cynipides. Sessiventres (ou Chalastogastres) — Céphides, Siricides, Orysides, Tenthrédinides.

Hymenoptera.

Le divisioni principali sono :—

Aculeata — Antophila (Apidae, Andrenidae), Vespida (Diplopteres), Sphegida s.l. (Fossores), Formicidae (Heterogyna). Tubulifera — Chrysididae. Parasitica — Trigonalidae, Proctotrupidae, Pelecinidae, Chalcididae, Ichneumonidae, Braconidae, Megalyridae, Evanidae, Stephanidae, Cynipidae. Sessiventra (vel Chalastogastra) — Cephidae, Siricidae, Orysidae, Tenthredinidae.

4800–4831 **Coleoptera (incl. Strepsiptera).**

The name of the family referred to should be given on each slip.

The families are numerous. They are included in the Munich Catalogue of the Coleoptera (Catalogus coleopterorum hucusque descriptorum synonymicus et systematicus) and (the subsequent additions) in "Cambridge Natural History," vol. vi.

Coleoptera (incl. Strepsiptera)

Auf jedem Zettel ist der Name der betr. Familie anzugeben.

Die Zahl der Familien ist gross. Sie sind aufgeführt in dem Münchener Coleopteren-Katalog (Catalogus coleopterorum hucusque descriptorum synonymicus et systematicus) und (soweit es sich um spätere Zusätze handelt) in „Cambridge Natural History," vol. vi.

5000–5031 **Prochordata, viz., Leptocardii, Enteropneusta, Tunicata.**

Prochordata, d.h., Leptocardii, Enteropneusta, Tunicata.

5200–5231 **Vertebrata.**

No systematic enumeration is to be placed under 5231.

Vertebrata.

5231 wird keine systematische Aufzählung enthalten.

5400–5431 **Pisces [excl. Leptocardii (or Amphioxus), for which see 5000–5031].**

The principal divisions are :—
Cyclostomi, Ostracodermi, Plagiostomi, Holocephali, Arthrodira, Dipnoi, Teleostomi (or Teleostei and Ganoidei, with the exception of Arthrodira and Ostracodermi).

The family should be mentioned. *See* Cambridge Natural History.

Pisces [mit Ausschluss der Leptocardii (oder Amphioxus), siehe 5003–5031].

Hauptabteilungen sind :—
Cyclostomi, Ostracodermi, Plagiostomi, Holocephali, Arthrodira, Dipnoi, Teleostomi (oder Teleostei und Ganoidei, mit Ausnahme von Arthrodira und Ostracodermi).

Familie angeben. *Siehe* Cambridge Natural History.

5600–5631 **Amphibia and Reptilia.**

The principal divisions are :—
Batrachia or Amphibia (Stegocephala or Labyrinthodontia, Apoda, Caudata or Urodela, Ecaudata or Anura).
Reptilia (Anomodontia, Rhynchocephalia, Plesiosauria, Ichthyosauria, Cotylosauria, Pareiasauria, Diaptosauria, Protorosauria, Rhynchosauria, Procolophonia, Proganosauria, Choristodera, Chelonia, Crocodilia, Dinosauria, Ornithosauria or Pterosauria, Ophidia, Pythonomorpha, Rhiptoglossa, Lacertilia).

Amphibia und Reptilia.

Hauptabteilungen sind :—
Batrachia oder Amphibia (Stegocephala oder Labyrinthodontia, Apoda, Caudata oder Urodela, Ecaudata oder Anura).
Reptilia (Anomodontia, Rhynchocephalia, Plesiosauria, Ichthyosauria, Cotylosauria, Pareiasauria, Diaptosauria, Protorosauria, Rhynchosauria, Procolophonia, Proganosauria, Choristodera, Chelonia, Crocodilia, Dinosauria, Ornithosauria oder Pterosauria, Ophidia, Pythonomorpha, Rhiptoglossa, Lacterilia).

4800–4831 **Coléoptères (y compris les Strepsiptères).**

Le nom de la famille dont il est question doit être donné sur chaque fiche.

Les familles sont nombreuses. Elles sont indiquées dans le Catalogue des Coléoptères de Munich (Catalogus coleopterorum hucusque descriptorum synonymicus et systematicus) et (pour les additions subséquentes) dans "Cambridge Natural History," vol. vi.

Coleoptera (incl. Strepsiptera).

Il nome della famiglia dev'essere indicato su ciascuna scheda.

Le famiglie sono numerose. Si trovano indicate nel Catalogo dei Coleoptera di Monaco (Catalogus coleopterorum hucusque descriptorum synonymicus et systematicus) e (le susseguenti aggiunte) in "Cambridge Natural History," vol. vi.

5000–5031 **Prochordés, c'est à dire, Leptocardiens, Entéropneustes, Tuniciers.**

Prochordata, cioè Leptocardii, Enteropneusta, Tunicata.

5200–5231 **Vertébrés.**

Aucune énumération systématique n'est placée sous le numéro 5231.

Vertebrata.

Non deve porsi alcuna enumerazione sistematica sotto 5231.

5400–5431 **Poissons [À l'exception des Leptocardiens (ou Amphioxus), qui se trouvent sous les numéros 5000–5031].**

Voici les divisions principales :—

Cyclostomes, Ostracodermes, Plagiostomes, Holocéphales, Arthrodires, Dipnoïques, Téléostomes (ou Téléostéens et Ganoïdes, à l'exception des Arthrodires et des Ostracodermes).

La famille doit être mentionnée. *Voy.* Cambridge Natural History.

Pisces [escl. Leptocardii (vel Amphioxus), per i quali vedi 5000–5031].

Le divisioni principali sono :—

Cyclostomi, Ostracodermi, Plagiostomi, Holocephali, Arthrodira, Dipnoi, Teleostomi (o Teleostei e Ganoidei, con esclusione di Arthrodira e Ostracodermi).

Indicare la famiglia. *Vedi* Cambridge Natural History.

5600–5631 **Batraciens et Reptiles.**

Voici les divisions principales :—

Batraciens ou Amphibiens (Stégocéphales ou Labyrinthodontes, Apodes, Caudés ou Urodèles, Ecaudés ou Anoures).

Reptiles (Anomodontes, Rhynchocéphales, Plésiosauriens, Ichthyosauriens, Cotylosauriens, Parciasauriens, Diaptosauriens, Protorosauriens, Rhynchosauriens, Procolophoniens, Proganosauriens, Choristodères, Chéloniens, Crocodiliens, Dinosauriens, Ornithosauriens ou Ptérosauriens, Ophidiens, Pythonomorphes, Rhiptoglosses, Lacertiliens).

Batrachia et Reptilia.

Le divisioni principali sono : —

Batrachia vel Amphibia (Stegocephala vel Labyrinthodontia, Apoda, Caudata vel Urodela, Ecaudata vel Anura).

Reptilia (Anomodontia, Rhynchocephalia, Plesiosauria, Ichthyosauria, Cotylosauria, Parciasauria, Diaptosauria, Protorosauria, Rhynchosauria, Procolophonia, Proganosauria, Choristodera, Chelonia, Crocodilia, Dinosauria, Ornithosauria vel Pterosauria, Ophidia, Pythonomorpha, Rhiptoglossa, Lacertilia).

5800–5831 **Aves.**

The principal divisions are :—
Acciptres, Aepyornithes, Alcae, Alectorides (including *Cariama*), Anisodactylae (including Podargidae and *Steatornis*), Anseres (including Phoenicopteri and Palamediidae), Apterygcs, Casuarii, Coccyges, Columbae, Coraciae, Crypturi, Cypseli, Dinornithes, Fulicariae, Gallinae, Gaviae, Herodiones, Heterodactylae, Impennes, Limicolae, Odontolcae, Odontormae, Opisthocomi, Passeres (mention families), Pici, Psittaci, Pterocletes, Pygopodes, Rheae, Saururae, Steganopodes, Stereornithes, Striges, Struthiones, Tubinares, Zygodactylae.

Aves.

Hauptabteilungen sind :—
Accipitres, Æpyornithes, Alcæ, Alectorides (einschl. *Cariama*), Anisodactylæ (einschl. Podargidæ und *Steatornis*), Anseres (einschl Phœnicopteri und Palamediidæ), Apteryges, Casuarii, Coccyges, Columbæ, Coraciæ, Crypturi, Cypseli, Dinornithes, Fulicariæ, Gallinæ, Gaviæ, Herodiones, Heterodactylæ, Impennes, Limicolæ, Odontolcæ, Odontormæ, Opisthocomi, Passeres (Familien angeben), Pici, Psittaci, Pterocletes, Pygopodes, Rheæ, Saururæ, Steganopodes, Stereornithes, Striges, Struthiones, Tubinares, Zygodactylæ.

6000–6031 **Mammalia.**

The principal divisions are :—
Carnivora, Cetacea, Chiroptera, Edentata, Insectivora, Marsupialia, Monotremata, Multituberculata, Primates, Rodentia, Sirenia, Tillodontia, Ungulata (Artiodactyla, Perissodactyla, Subungulata).

Mammalia.

Hauptabteilungen sind :—
Carnivora, Cetacea, Chiroptera, Edentata, Insectivora, Marsupialia, Monotremata, Multituberculata, Primates, Rodentia, Sirenia, Tillodontia, Ungulata (Artiodactyla, Perissodactyla, Subungulata).

5803–5831 **Oiseaux.**

Voici les divisions principales :—
Accipitres, Æpyornithéens, Alciens, Alectoriens (y compris les *Cariama*), Anisodactyles (y compris les Podargides et les *Steatornis*), Ansériens (y compris les Phœnicoptères et les Palamédiidés), Apterygiens, Casuariens, Coccygiens, Colombins, Coraciens, Crypturiens, Cypséliens, Dinornithiens, Fuliciariens, Gallinacés, Gaviens, Hérodiens, Hétérodactyles, Impennes, Limicoliens, Odontolciens, Odontormiens, Opisthocomes, Passereaux (indiquer les familles), Pics, Perroquets, Ptérocliens, Pygopodes, Rhéens, Saururiens, Stéganopodes, Stéréonithiens, Strigiens, Struthioniens, Tubinariens, Zygodactyles.

Aves.

Le divisioni principali sono :—
Accipitres, Aepyornithes, Alcæ, Alectorides (incl. *Cariama*), Anisodactylae (incl. Podargidæ et *Steatornis*), Anseres (incl. Phœnicopteri et Palamediidæ), Apteryges, Casuarii, Coccyges, Columbæ, Coraciæ, Crypturi, Cypseli, Dinornithes, Fulicariæ, Gallinæ, Gaviæ, Herodiones, Heterodactylæ, Impennes, Limicolæ, Odontolcæ, Odontormæ, Opisthocomi, Passeres (indicare le famiglie), Pici, Psittaci, Pterocletes, Pygopodes, Rheæ, Saururæ, Steganopodes, Stereornithes, Striges, Struthiones, Tubinares, Zygodactylæ.

6000–6031 **Mammifères.**

Voici les divisions principales :—
Carnivores, Cétacés, Chiroptères, Édentés, Insectivores, Marsupiaux, Monotrèmes ; Multituberculés, Primates, Rongeurs, Siréniens, Tillodontes, Ongulés [Ungulata] (Artiodactyles, Périssodactyles, Subongulés).

Mammalia.

Le divisioni principali sono :—
Carnivora, Cetacea, Chiroptera, Edentata, Insectivora, Marsupialia, Monotremata, Multituberculata, Primates, Rodentia, Sirenia, Tillodontia, Ungulata (Artiodactyla, Perissodactyla, Subungulata).

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ARRANGED BY

D. SHARP

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Ueber das Eindringen von *Lankesterella* sp. in die Froschblutkörperchen; **Neresheimer, 373.**

In *Rana clamata*, *Nyctotherus parvus*, n. sp.; in *R. palustris*, *N. p.* and *Balantidium falciformis* n. sp.; **Walker, 528.**

Sur une Hémogrégarine (*H. heteronucleata* n. sp.) du *Leptodactylus pentadactylus*; **Carini, 83.**

In *Salamandra maculosa*, *Triton cristatus* and *Alytes obstetricans*, large intestine, *Trichomonas prowazeki*, n. sp.; **Alexeieff, 5.**

Reptilia.

In the following Reptiles, Haemogregarines unspec., viz.:—*Sternotherus derbianus*, *Varanus arenarius*, *Naia* sp. (?), *Causus rhombeatus*, *Grayia smithii*, *Psammophis trigrammus*, *Philothamnus semivariegatus*, *P.* sp., *Python regius*, *P. sebae*, and one or two Colubriform species; **Bouet, 46.**

In the following Reptiles, new Trypanosomes, viz.:—*Sternotherus derbianus*, *T. pontyi*; *Tropidonotus ferox* and *Grayia smithii*, *T. clozeli*; *Mabuia macutilabris* and *M. pennotteti*, *T. martini*; *Psylodactylus caudicinctus*, *T. gallayi*; **Bouet, 45.**

In Australian Reptiles, *Hg. morcliae*, *pseudechis* and *clelandi*, n. spp.; **Johnston, 233.**

Ueber Hämogregarinen (unspec.) im Blute Surinamischer Schlangen (unspec.); **Flu, 168.**

No evidence that the crocodile is an alternate host for *T. gambiense*; **Minchin, 354.**

Sur une Hémogrégarine (*H. boskiani*) d'*Acanthodactylus boskianus*; **Catouillard, 88.**

Sur une Hémogrégarine (*H. capsensis*) rencontrée chez *A. pardalis*; **Conor, 117.**

Sur une Hémogrégarine (*H. caimani*) du *Caiman latirostris* Daud; **Carini, 84.**

A new *Haemocystidium* from *Chelodina longicollis*; **Johnston & Cleland, 236.**

Hémogrégarines de *Clemmys leprosa* et de *Chelodina longicollis*; **Laveran et Pettit, 279.**

In *Diploglossus fasciatus* ("snake lizard," Rio de Janeiro), "*Plasmodium*" *diploglossi* n. sp.; **Aragao & Neiva, 9.**

In *Lacerta ocellata*, *Haemogregarina minuta* and *H. nicollei*, n. spp.; **Franca, 172.**

In *Lachesis lanceolatus*, Tropical America, *Hg. plimmeri* n. sp.; **Sambon, 467.**

Sur une Hémogrégarine ("*H.*" *gightiensis*) karyolysante de *Lithorhynchus diadema*; **Cuénod, 120.**

In *Naia* (or perhaps *Sepedon*), and in *Cinixys belliana*, pigmented Haemosporidia, termed, resp., "*Plasmodium*" *mesnili* and "*P.*" *roumei*; **Bouet, 44.**

In a Gecko (*Platydactylus muralis*), Tunis, *Trypanosoma platydactyli*, n. sp.; **Catouillard, 87.**

In *Pituophis melanoleucus*, *H. pituophis* n. sp.; in *Coluber triaspis* and *Zamenis constrictor*, *H.* spp.; **Laveran et Pettit, 269.**

Sur un Hématozoaire nouveau (*H. pallida*) de *Psammodromus algirus*; **Franca, 173.**

From snake, *Python amethystina*, *Haemogregarina amethystina*, n. sp.; **Johnston, 233.**

In *Python sebai*, *Haemogregarina sebai*, n. sp.; **Laveran et Pettit, 277.**

In *Testudo tabulata*, *Haemogregarina dimorphon* n. sp.; in various snakes (*Coraltus caninus*, *Epicrates cerebris* and two other Colubrines), Haemogregarines; **Brimont, 60.**

Various turtles (aquatic, America), as hosts of *Haemogregarina stepanovi*; **Hahn, 204.**

In *Tropidonotus piscator* (Tonkin), *Trypanosoma primeti*, n. sp.; **Mathis et Léger**, 336.

In *Tropidurus torquatus* (Rio de Janeiro), "*Plasmodium*" *tropiduri*, n. sp.; **Aragao & Neiva**, 9.

In *Tupinambis teguixin*, (Brazil), *Hg. tupinambis*; **Laveran et Salimbeni**, 281.—In *T. t.* *Haemogregarina tupinambis* and *H. mesoni*, n. spp. **Carini**, 81.

Hémogrégarines de *Zamenis hippocrepis* et *Zamenis algirus*; **Manceaux**, 316.

Aves.

In the following birds (Congo), Trypanosomes unspec., viz.:—*Pictonotus tricolor*, *Numida meleagris*, *Vidua serena*, *Francolinus bicalcaratus*, *Caprimulgus fossei*, *Strix flammea trimaculata* and *Eurystomus gularis*; **Kérandel**, 239.

In the following birds, *Leucocytozoon* sp. indet., viz.:—*Numida meleagris*, *Francolinus bicalcaratus*, *Eurystomus gularis*, *Strix flammea trimaculata*, *Caprimulgus fossei*; **Kérandel**, 239.

In the following birds (Cameroon), Trypanosomes sp. incert. (mostly relegated to the type "*T. avium*") viz.: *Trypanistmus ater*, *Lophoceros fasciatus*, *Chrysococcyx cupreus*, *Andropadus virens*, *Poliocrias erithacus*, *Nectarinia* sp., *Melliphagus variegatus*, *Ardea bubulcus*, *Halcyon senegalensis*, and one or two unnamed birds; **Zupitza**, 554.

New *Halteridia* from birds in New South Wales; **Cleland and Johnston**, 106.

List of known Avian hosts of *Halteridium* (*danilewskyi* sens. lat.); **Cardamatis**, 78.

Observations sur les Trypanosomes et Hématozoaires chez les oiseaux en Grèce; **Cardamatis**, 79.

In *Cathartes atratus*, the "Urubu," a Trypanosome; **Brimont**, 60.

In *Falco* sp., *Leucocytozoon* sp. and a Trypanosome; **Mezinescu**, 348.

In Tonkin partridge (*Francolinus chinensis*), *Leucocytozoon ramoni*, n. sp.; **Léger et Mathis**, 297.

In domestic fowl (Tonkin), *Trypanosoma cultellus*, n. sp.; **Mathis et Léger**, 334; also *Leucocytozoon ovoliquo*, n. sp.; **id.**, 335.

In *Dendrocopos pubescens* (East Africa, fowl), blood, *Leucocytozoon* sp.; **Keysselitz and Mayer**, 241.

In *Melopsittacus undulatus* (East Indies), a new "Haemoniden" (*Hal. teridium melopsittaci*); **Laveran & Pettit**, 273.

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In *Nettion* (*Anas*) *crecca*, *Haltoridium nettionis* sp. n., in *Passer domesticus*, *Proteosoma passeris*, n. sp.; **Johnston & Cleland**, 235.

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On the infection of rabbits with *Trypanosoma cuniculi*; **Ashworth & MacGowan**, 10.

In *Canis aureus*, intestine, *Nycteriotrema multiporiferum* n. sp.; **Walker**, 528.

In *Mus alexandrinus*, *Leucocytozoon muris*; **Johnston & Cleland**, 235.—In *M. sylvaticus*, *Trypanosoma gnoni*, n. sp. (non-pathogenic to white rats and mice); **Laveran et Pettit**, 275.

In *Microtus arvalis* (Dog-headed field mouse), *T. microti*, n. sp.; **Laveran et Pettit**, 276.

Trypanosomen und intracellulare Blutparasiten freilebender Nager im Maulwurf; **Vrublevski**, 527.

In blood of hedgehog (*Erinaceus europaeus*), *Proteosoma erinacei* n. sp.; **Yakimoff**, 548.

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Protozoa. Klassifikation und Stellung im System; Averintzeff, Moskva, Dnevn. XII. Sjězda russ. iset. vrač. 1909–1910g. [Prot.] 1909 pp. 154–155.

Lehrbuch der Protozoenkunde. Eine Darstellung der Naturgeschichte der Protozoen mit besonderer Berücksichtung der parasitischen und pathogener Formen; Doflein Jena (G. Fischer) 1909 (x + 914) numerous figs.

I. MYCETOZOA.

Mycetozoa, general account; Lister in Lankester's Treatise on Zoology pt. 1 fasc. i pp. 37–67 & 19 text figs.

Proteomyxa, general account; Hickson, T. c. pp. 1–13 & 9 text figs.

Pellomyces gen. n. (perhaps allied to *Plasmodiophora*) *hyalinus*, *forficulae*, spp. n., *blattellae* (Crawley); occurrence and account of life-cycle; Léger, C. R. Acad. sci. **149** pp. 239–241.

Allied to Mycetozoa.

Chytridiopsis, Schneider, regarded as allied to the lower Mycetozoa *C. socius*, development pp. ix–xii; *variabilis*, *aquaticus*, *schneideri* spp. n. p. xii; Léger et Duboscq Arch. zool. Ser. 5 **1** N. et R. 2 figs.

Ophryomyces gen. n. *dorci* sp. n.: Léger et Hesse C. R. Acad. sci. **149** pp. 303–304.

Zoomyxa gen. n. (perhaps allied to *Chytridiopsis*), *legeri* sp. n., in *Coccidium* life-cycle; Elmassian Arch zool. Ser. 5 **2** pp. 249–266 pl. vii.

2. SARCODINA (=GYMNOMYXA).

Lobosa, general systematic account; Hickson in Lankester's Treatise on Zoology pt. 1 fasc. i pp. 68–93 and 21 text figs.

Rhizopods and Heliozoa, fresh-water, Netherlands, notes on; Hoogenraad Tijdschr. Ned. Dierk. Ver. **11** pp. 61–70 pl. iii.

Sur quelques Rhizopodes des mousses, notes systématiques et synonymie; Penard Arch. Protistenk. **17** pp. 258–296.

Notes sur quelques Sarcodinés; Penard Rev. Suisse Zool. **13** pp. 585–616.

Xenophyophora.

Psammophyllum laciniatum sp. n., Japan; Neviani Boll. Soc. Zool. ital. Ser. 2 **10** pp. 265 and 266.

(a) Amœbaea (= Lobosa).

Amœbae, general account (Japanese); Koizumi Dobuts. Z. **21** pp. 199–217.—*A.* of two types (cf. *coli* and *histolytica*), occurring in the intestines in cases of goitre, described; McCarrison Q. J. Microsc. Sci. **53** pp. 723–736 and 24 text figs.—*A.* sp. of dysentery in Cochin-China, development and life-cycle and identification with a commony-occurring water *A.*; Noc Ann. Inst. Pasteur **23** pp 177–204 pls. xiii.—*A. blattae*, morphologie, encystement et génération; Elmassian Arch. Protistenkunde **16** pp. 143–163 Taf. xi.—*A. b.*, Kern und Kernteilung; Janicki Biol. Centralbl. **29** pp. 381–393 7 text figs.—*A. b.*, Cycle évolutif; Mercier Arch. Protistenkunde **16**

pp. 164–168.—*A. chironomi* sp. n. from larva of *Chironomus*, described; PORTER Parasitol 2 pp. 32–41 and 21 text figs.—*A. diplomitotica* sp. n., nuclear structure and division; ARAGAO Mem. Inst. Oswaldo Cruz 1 pp. 33–43 pl. ii.—*A. murai* sp. n., from Man described; IJIMAI Annot. zool. japon. 2 1908 pp. 85–94 9 text figs.—*A. mucicola* sp. n., of *limax* type, ectoparasitic on gills of *Symphodus*; CHATTON C. R. Soc. Biol. **67** pp. 690–692.—*A. murulis* sp. n., pp. 267–270 and text figs.; PENARD Arch. Protistenk. **17**.—*A. spinifera* p. 17, *lacustris* p. 20, *hortcola* p. 21, *albida* p. 24 spp. n., *froschi* p. 12, *lacertae* p. 19 *diplodia* p. 31, notes on morphology and phases of life-cycle; NAGLER Arch. Protistenkunde **15** pls. i–vi.—*A. terricola* Greeff, biology, minute structure and physiology; GROSSE-ALLERMANN Arch. Protistenkunde **17** pp. 203–257 Taf. xi–xiii and many text figs. *A., notes on genus and species; PENARD Rev. Suisse Zool. **13** pp. 401–409. [A. See also under *Entamoeba*.]

Capsellina gen. n. *bryorum* sp. n., moss-fauna, described; PENARD Arch. Protistenk. **17** p. 290 and text figs.

Cochliopodium crassiusculum Penard, diagnosed; PENARD Rev. Suisse Zool. **13** p. 592 pl. xiii fig. 7.

Diplochlamys fragilis, *timida*, *gruberi* spp. n., of moss-fauna; PENARD Arch. Protistenkunde **17** pp. 272, 275 and 282 with text-figs.

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(b) [1091 c]

Frenzelina moniliformis sp. n. Netherlands; HOOGENRAAD Tijdschr. Ned. Dierk. Ver. Ser. 2 **11** p. 61 and figs.

Mastigamoeba see under Flagellata.

Pelomyxa palustris Fortpflanzung; TONNIGES Marburg SitzBer. Ges. Natw. **1909** pp. 37–43.

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(b) Foraminifera.

Foraminifera, recent and fossil, shore-sands Selsey Bill, Sussex; HERON-ALLEN and EARLAND J. R. Microsc. Soc. **1909** pp. 306–336, 422–446 and 677–698 with pls. xv–xviii and xx, xxi.

Foraminifera; CHAPMAN in: "Sub-Antarctic Islands of New Zealand," edit. by Chas. Chilton 1909 pp. 312–371 pls. xiii–xvii.

Recent Foraminifera, Island of Delos (Grecian Archipelago), described; SIDEBOTTOM Manchester, Mem. Lit. Phil. Soc. **53** No. 21 32 pp. 5 pls.

†Foraminifera, Nummulitic series (Eocene Oligocene), neighbourhood of Termini-Imerese, new forms, diagnosed; CHECCHIA-RISPOLI Giorn. sc. nat. econ. **26** pp. 159–188.—The same and additional ones, described; ID. *op. cit.* **27** pp. 53–156 and 177–207 with 7 + 2 pls.

†Foraminifera, Cretaceous, Seewen (Bavaria) described; EGGER München. SitzBer. Ak. Wiss. **1909** No. 11 pp. 1–52 and 6 pls.

†Foraminifera, Lower Tertiary, Hungary, notes; LORENTHEY Math. Termt. Ert. **27** pp. 584–598 1 pl.

†Foraminifera, Cretaceous, Calasacco (Termini-Imerese), described; SILVESTRI Paleont. geogr. ital. **14** pp. 121–169 pls. xvi–xx.

†Foraminifera, Rupelton, Mainzer Becken; SPANDEL Ber. ver. natk. **43–50** pp. 57–230 2 pls

†Observations sur les Nummulitides du sommet du Nummulitique italien; DOUVILLÉ Bul. soc. géol. Ser. 4 **8** pp. 88–91 pl. ii.

†Lagene reticolate Italia, revisione; FORNASINI Rend. Acc. Sc. Bologna N. S. **13** pp. 63–69 1 pl.

†*Adherentina rhenana* **sp. n.**, Rupelton Mainzer Becken; SPANDEL Offenbach Ber. Ver. Natk. **43–50** p. 212 and fig.

Allogromia ovoidea (Rhumbl.), notes on systematic position, schizogony and gametogony; SWARCZEWSKY Arch. Protistenkunde **14** pp. 396–416 pls. xviii and xix.

†*Alveolina fornasinii*, *zitteli*, *gigantea*, p. 158, *baldaccii*, *bassanii*, *minuta* p. 160, **spp. n.**, Tertiary, Termini-Imerese, diagnosed; CHECCHIA-RISPOLI Giorn. Sc. nat. econ. **26**.

Ammodiscoides **gen. n.** (*Astrorhizidae* allied to *Ammodiscus*) *turbinatus* **sp. n.**, Gulf of Mexico, described: CUSHMAN Smithsonian Inst. U. S. Nation. Mus. Proc. **36** pp. 423–424 and pl. xxxiii.

†*Anomalina spinimargo* **sp, n.**, Rupelton Mainzer Becken: SPANDEL Offenbach Ber. Ver. Natk. **43–50** p. 216.

†*Articulina foveolata*, **sp. n.**, Selsey Bill; HERON-ALLEN and EARLAND J. R. Microsc. Soc. **1909** p. 317 pl. xv. fig. 8.

†*Assilina sicula* **sp. n.**, Eocene Termini-Imerese; CHECCHIA-RISPOLI Giorn. sc. nat. econ. **26** p. 158.—*A. distefanoi* **sp. n.**, Nummulitic, Termini-Imerese: ID. *op. cit.* **27** pp. 96 and 129 pl. iii fig. 7 and pl. vi figs. 14 and 15.

†*Bigenerina conica*, Selsey Bill and Victoria, Australia, p. 329 pl. xvi., *selseyensis* p. 330 pl. xv. figs. 15–17 **spp. n.**; HERON-ALLEN and EARLAND J. R. Microsc. Soc. **1909**.

†*Bolivina minutissima*, p. 205, *kinkelini* p. 206, *bottgeri*, *oligocenica* p. 208, **spp. n.**, Rupelton, Mainzer Becken; SPANDEL Offenbach Ber. Ver. Natk., **43–50**.

†*Bruguieria intermedia*, A. & B. forms, Oligocene, Termini-Imerese, synonymy and description; SILVESTRI Boll. Soc. geol. ital. **27** pp. 632–650 pl. xxi figs. 8–16.

Chlamydophrys stercorea, from toad, notes on; DOBELL Q. J. Microsc. Sci. **53** p. 255 pl. v figs. 80–90.

Cornuspira selseyensis **sp. n.**, (possibly megalospheric form of *C. involvens*); HERON-ALLEN and EARLAND J. R. Microsc. Soc. **1909** p. 319 p. xv figs. 9–11.

†*Discorbina cristata* **sp. n.**, shore-sands, Selsey Bill; HERON-ALLEN and EARLAND T.c.p. 445 p. xviii figs. 8–10.

†*Exagonocyclina* **sub-gen.** (or gen). **n.** (*Orbitoides* sens. lat.), *schopeni* p. 159, *steinmanni* p. 174. **spp. n.**, Eocene, Termini-Imerese; CHECCHIA-RISPOLI Giorn. sc. nat. econ. **26**.—*E. schopeni* p. 104 pl. iv figs. 22 and 23, *steinmanni* p. 105 pl. v. fig. 5, described; ID. *op. cit.* **27**.

†*Fusulinae*, Permo-Carboniferous, Carnia, methodi di deteminazione, *F. forojuliensis*, *carnica*, **spp. n.**; GORTANI Atti. Soc. tosc. sc. nat. (proc. verb.) **18** pp. 15–17.

†*Fusulinidae*, phylogenetische Entwickelung; v. STAFF Centralbl. Mineral. **1908** pp. 691–703.

†*Gaudryina hantkeni* **sp. n.**, Ungarn.—LÖRENTHEY Math. Termt. Ert. **27** p. 593 figs. 1–3.—*G. postsiphonella* **sp. n.**, Rupelton, Mainzer, Becken; SPANDEL Offenbach Ber. Ver. Natk. **43–50** p. 211 and fig.

†*Hyperammina zinndorfi* **sp. n.**, Rupelton, Mainzer Becken; SPANDEL T. c. p. 197 and figs.

Lagena enderbiensis **sp. n**, p. 339 pl. xvi fig. 1, *lagenoides* var. n. *nuda* p. 338 pl. xv fig. 9, *quadrata* var. n. *carinata* p. 339 p. xv fig. 12; CHAPMAN "Subantarctic Islands of New Zealand" 1909 vol. 1.

†*L. orbignyana* **var. n.** *selseyensis*: HERON-ALLEN & EARLAND J. R. Microsc. Soc. **1909** p. 426 pl. xvii figs, 1 and 2.

†*Lepidocyclina negrii* **sp. n.**, Miocene, S. Mauro Torinese; FERRERO Boll. Soc. geol. ital. **28** p. 135 pl. iii.—*L. pedemontana* **sp. n.**, Miocene, Rosignano, diagnosis only; PREVER T. c. p. 155.—*L. ferreroi* **sp. n.**, p. 70 pl. ii figs. 7–13, *tournoueri* var. n. *inflata* p. 73 pl. ii figs. 14 and 15, *borneensis* p. 74 figs. 16–19, *angulosa* p. 90 pl. iii figs. 13–15, diagroses; PROVALE Riv. ital. Pal. **15**.—*L. praemarginata* p. 91 text figs. 1, 2 and 4, *subdilatata* p. 92 text figs. 5–8 **spp. n.** Italy; DOUVILLÉ Bul. soc. géol. Sér. 4 **8**.—*L.* **sp. n.** unspec. and other forms, Oligocene and Miocene Madagas-

car noted; DOUVILLÉ Bull. Soc. geol. Sér. 4 8 pp. 321–323.—*L. pseudomarginata*, *marianii*, p. 159, *inflexa*, *fornasinii*, *preveri*, p. 164, *planulata* p. 166, *pulchella* p. 174, **spp. n.**, Nummulitic series, Termini-Imerese; CHECCHIA-RISPOLI Giorn. Soc. nat. econ. **26**.—*L. inflexa* p. 101 pl. v figs. 8 and 9, *preveri* p. 101 pl. iv fig. 27 and pl. v fig. 12, *dilatata* var n. *himerensis* (= *L. himerensis* Checch.) p. 100 pl. v figs. 1–7.—*L. planulata* p. 131 pl. vii figs 5–7, described ID. *op. cit.* **27**.—*L. senoniana* p. 206, pl. ii figs. 6–8, *bayhariensis* p. 208 pl. ii figs. 9–12, **spp. n.**, Cretaceous Sicily; CHECCHIA-RISPOLI & GEMMELLARO *op. cit.* **26**.—*L. s*, further description; ID. *op. cit.* **27** p 168 pl. i fig. 8.

Lieberkühnia fluvialis (Duj.) synn. *Gromia fluvialis* Duj. *G. terricola* Leidy & *L. wageneri* Clap. & Lachm.; PENARD Arch. Protistenk. **17** pp. 293–296 and text fig.

Miliolina chrysostoma **sp. n.**; CHAPMAN "Subantarctic Islands of New Zealand" 1909 vol. 1 p. 322 pl. xiii figs. 8–10 pl. xiv figs. 1 and 4.

†*Nodosaria kinkelini* **sp. n.**, Rupelton Mainzer Becken; SPANDEL Offenbach Ber. Ver. Natk. **43–50** p. 201 and fig.

†*Nonionina polystomelliformis* **sp. n**, Rupelton, Mainzer Becken; SPANDEL T.c. p. 216 and figs.

†*Nummulitidae* and *Orbitoideae*, Oligocene-Miocene, Borneo, described; PROVALE Riv. ital. Pal. **15** pp. 65–96 pls. ii and iii.—*N.* Oligocene, Termini-Imerese (Palermo); SILVESTRI Boll. soc. geol. ital. **27** pp. 593–654 pl. xxi.

†*Nummulites carapezzai* p. 167, *minuta* p. 171, *gesneri*, *gemmellaroi* p. 174, **spp. n.**, Termini-Imerese: CHECCHIA-RISPOLI Giorn. sc. nat. econ. **26**.—*N. carapezzai* p. 124, pl. vi fig. 12, *dollfusi* p. 90 pl. iii fig. 8, *baldaccii* p. 94 pl. iii fig. 6, *sicula* p. 193 pl. i fig. 23, *subsicula* p. 193 **spp. n.**, Nummulitic series, Termini-Imerese, described: CHECCHIA-RISPOLI *op. cit.* **27**.—*N.* (*Hantkenia*) *complanata*, Lam., Abnormale Entwicklung: POPESCU-VOITESTI, Földt. Közl. **39** pp. 1–4.

†*Operculina paronai* **sp. n.**, Nummulitic series, Termini-Imerese; CHECCHIA-RISPOLI Giorn. sc. nat. econ. **27** p. 83 pl. iii figs. 15 and 16.

†*Orbitoideae*, Cretaceous Sicily, described; CHECCHIA-RISPOLI and GEMMELLARO Giorn. sc. nat. econ. **26** pp. 198–211 pls. i and ii and *op. cit.* **27** pp. 157–174 pls. i and ii.

†*Orbitoides* (sens. lat.), classification of, into 4 groups *O. sens. str.*, *Lepidocyclina*, *Orthophragmina* and *Eraguocyclina* nov.; CHECCHIA-RISPOLI *op. cit.* **26** pp. 185–188.—*O.* (*sens. str.*), *caroli*, *philippi* p. 161, *johannis*, *januarii*, *ciofaloi* p. 170. **spp. n.**, Eocene, Termini-Imerese; CHECCHIA-RISPOLI T.c. —*O. caroli* p. 197 pl. i figs. 11–14. *O. ciofaloi* (= *Lepidocycl. ciof.* Checch.). p. 197. *O. media* var. *philippi* (= *O. philippi* Checch.). p. 198 pl. i figs. 1, 2, 24–32, *O gensacica* var. *januarii* (= *O. januarii* Checch.), p. 199 pl. i figs. 6–10, *O. schuberti* **sp. n.** p. 196 pl. i figs. 3–5, described; CHECCHIA-RISPOLI *op. cit.* **27**.—*O. adelis* p. 202 pl. i figs. 2 and 3, *panormitana* p. 203 pl. i fig. 4, *sicula* p. 204 pl. ii fig. 1, *euracensis* p. 205 pl. ii figs. 2–5. **spp. n.**, Cretaceous, Sicily; CHECCHIA-RISPOLI & GEMMELLARO *op. cit.* **26**.—*O. p.*, p. 163 pl. i figs, 2, 4 and 6, pl. ii fig. 2, *O. e.* p. 161 pl. i fig. 9, further description. *O. pileolus* p. 160 pl. ii figs. 7 and 13–14, *decipiens* p. 161 pl. i figs. 3 and 7, pl. ii figs. 1 and 5, **spp. n.**, described; ID. *op. cit.* **27**.

†*Orbulina bituminosa* **sp. n.**, Rupelton, Mainzer Becken; SPANDEL Offenbach. Ber. Ver. Natk. **43–50** p. 198 and figs.

†*Orthophragmina dubia* p. 159, *zitteli*, *canavarii*, *trigonalis*, p. 160, *saccoi*, *portisi*, *hoffmanni*, p. 165, *tellinii* p. 167, **spp. n.**, Nummulitic series, Termini-Imerese; CHECCHIA-RISPOLI Giorn. sc. nat. econ. **26**.—*O. dubia* p. 108, pl. iv figs. 3 and 28, *canavarii* p. 109 pl. iv figs. 15–17 and pl. v figs. 10 and 11, *distefanoi* **sp. n.**, p. 110 pl. iv figs. 6–13, p. 135 pl. 6 figs. 23–26 and pl. vii figs. 11 and 12, and p. 203 pl. i fig. 19, *saccoi* p. 112 pl. iv figs. 20 and 21, *portisi* p. 114. pl. iv figs. 18 and 19, *zitteli* p. 133 pl. vii figs. 3 and 4, *trigonalis* p. 136 pl. vi fig. 27 and pl. vii fig. 1, *pulchra* **sp. n.** p. 202 pl. i figs. 17 and 18, described: CHECCHIA-RISPOLI *op. cit.* **27**.—*O.* (?) *prima* **sp. n.** Cretaceous Sicily: CHECCHIA-RISPOLI and GEMMELLARO T.c. p. 169 pl. ii figs. 6, 10–12.

†*Paronaea vasca*, A & B forms Oligocene, Termini-Imerese, synonymy

and description; SILVESTRI Boll. soc. geol. ital. **27** pp. 612–630 pl. xxi figs. 1–7.

†*Pellatispira di-stefanoi* **sp. n.**, Eocene Termini-Imerese, diagnosed; CHECCHIA RISPOLI Giorn. sc. nat. econ. **26** p. 167. —*P. madarásci* Hantk., Beschreibung. LÖRENTHEY Math. Termt. Ert. **27** p. 596 figs. 5–8.

Planispirina antarctica **sp. n.**; CHAPMAN "Subantarctic Islands of New Zealand" 1909 vol. 1 p. 324 pl. xiv fig. 5.

Polystomella macella Ficht. & Moll. **var. n.** *granulosa* Island of Delos; SIDEBOTTOM Mem. Lit. Phil. Soc. **53** No. 21 p. 16 pl. v fig. 5.

†*Pseudarcella* **gen. n.** *rhumbleri* **sp. n.** Rupelton, Mainzer Becken; SPANDEL Offenbach Ber. Ver. Natk. **43–50** p. 199.

Pulvinulina globosa p. 9 pl. iv fig. 3, *simplex* p. 9 pl. iv, figs. 4 & 5, **spp. n.** Island of Delos; SIDEBOTTOM Mem. Lit. Phil. Soc. **53** No. 21.

†*Rhabdosphaera silvicaea* **sp. n.** Rupelton, Mainzer Becken; SPANDEL Offenbach Ber. Ver. Natk. **43–50** p. 221 and fig.

†*Rotalia offenbachensis* **sp. n.**, Rupelton, Mainzer Becken; SPANDEL T.c. p. 213 and fig.

†*Saccammina minutissima, grandisto ia* **spp. n.**, Rupelton, Mainzer Becken; SPANDEL T.c. p. 198 and figs.

Spirillina novae-zealandiae **sp. n.**, CHAPMAN "Subantarctic Islands of New Zealand" 1909 vol. 1 p. 352 pl. xvii figs. 4 and 5.

†*S. selseyensis*, **sp. n.**, shore-sands; HERON-ALLEN & EARLAND J. R. Microsc. Soc. **1909** p. 440 pl. xviii figs. 6 and 7.

†*Spiroplecta* (*Textularia*) *intermedia* **sp. n.**, Rupelton, Mainzer Becken; SPANDEL Offenbach Ber. Ver. Natk. **43–50** p. 210 and fig.

Technitella thompsoni **sp, n.**, North Sea diagnosis; HERON-ALLEN & EARLAND J. Quek. Microsc. Cl. (ser. 2) **10** pp. 402–406 pls. xxxi and xxxii.

†*Truncatulina globigeriniformis* **sp. n.**, Rupelton, Mainzer Becken; SPANDEL Offenbach Ber. Ver. Natk. **43–50** p. 216 and fig.

†*Uvigerina sagriniformis* **sp. n.**, Rupelton, Mainzer Becken; SPANDEL T.c. p. 209 and figs.—*U. selseyensis*, **sp. n.**: HERON-ALLEN & EARLAND J. R. Microsc. Soc. **1909** p. 437 pl. xviii figs. 1–3.

†*Virgulina frondicularoides* **sp. n.**, Rupelton, Mainzer Becken; SPANDEL Offenbach Ber. Ver. Natk. **53–50** p. 204 and figs.

(c) Heliozoa.

Heliozoa, general account; WELDON & HICKSON in Lankester's Treatise on Zoology pt. **1** fasc. i pp. 14–36 and 9 text figs.

Actinosphaerium eichhorni, changes occurring in physiological degeneration; HOWARD J. exp. Med. **10** pp. 207–231 pls. xvi–xix.

Wagnerella borealis Mereschk., Bau und Entwicklung; ZUELZER Arch. Protistenkunde **17** pp. 135–202 Taf. vi–x and 20 text figs.

(d) Radiolaria.

Radiolaria, general systematic account; GAMBLE in Lankester's Treatise on Zoology pt. **1** fasc. i pp. 94–153 and 32 text figs.

Die tripyleen Radiolarien der Plankton-Expedition. *Phacodinidae, Caementellidae* und *Cannorrhaphidae. Circoporidae, Cannosphaeridae*; BORGERT Ergeb. Plankton-Exped. **3** L.h. 7–9 pp. 281–379 and 7 Taf.

Radiolarien (*Collozoum, Thalassicolla, Thalassophysa*), Fortpflanzung, Gametenbildung; HARTMANN und HAMMER SitzBer. Ges. natf. Freunde **1909** pp. 228–248 T f. iii.

Spumellaria. Tl. 2. Unterlegion *Sphaerellaria*; SCHRÖDER in: Nordisches Plankton, Lfg **11** pp. xvii 1–xvii 66 and 37 text figs.

Radiolarien in der Variations- und Artbildungslehre; HAECKER Zs. indukt. Abstammgslehre **2** pp. 1–17.

Acanthometron pellucidum J. M., Bau und Entwicklung; MOROFF und STIASNY Arch. Protistenkunde **16** pp. 209–236 Taf. xiii and xiv and 54 text figs.

†*Actinomma echinoideum* p. 17 pl. iii fig. 2, *appenninicum* p. 18 fig. 3, *octoacanthium* fig. 4, *saccoi* p. 18 pl. ii fig. 16,

spp. n., Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. 28 No. 3.

Actissa nigra Mittelmeer, Sargasso-See p. 58, *rubra* Atlantic p. 61, *septentrionalis* Golfstrom p. 62, *elegans* Atlantic p. 63, *similis* Atlantic p. 60, *indica* West-australstrom p. 70 *siciliensis* Mittelmeer p. 71, spp. n.; LUDWIG Berlin (E. Ebering) 1908.

†*Amphisphaera biporata* fig. 14, *vinassai* fig. 15 p. 7, spp. n., Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. 23.—*A. italica* p. 14, pl. ii fig. 5, *spinosa* fig. 6, *cristata* p. 14 fig. 7, spp. n., Miocene, Bergonzano; CARNEVALE Mem. Ist. Ven. 28 No. 3.

†*Amphistylus pantanellii* fig. 16, *elegans* fig. 17 p. 8, spp. n., Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. 28.

†*Anthocyrtium phylloacanthos* sp. n., Miocene Bergonzano; CARNEVALE Mem. Ist. ven. 28 No. 3 p. 30 pl. iv fig. 14.

†*Astrophacus ehrenbergii* sp. n., Miocene, Bergonzano; CARNEVALE T.c. p. 23 pl. iv fig. 1.

Aulacantha scolymantha H., nuclear division, multiplication and gametogony described, and comparison with other Radiolaria; BORGERT Arch. Protistenkunde 14 pp. 134–263 pls. xi–xvii and 21 text. figs.

Aulodendron arcticum sp. n. Sea of Greenland; JÖRGENSEN in Duc d'Orleans, Croisière Océanograph. 1907 p. 457 p. lxxv figs. 3–6.

Aulographis cuspidulata sp. n., p. 456 pl. lxxv fig. 1, Sea of Greenland; JÖRGENSEN T.c.

Aulophyton monodon sp. n. prov., Sea of Greenland; JORGENSEN T.c. p. 457 pl. lxxv fig. 2.

Caementella gen. n. (Tripylaria), *loricata* sp. n., Sargasso-Meer; BORGERT Ergeb. Plankton-Exped. Bd 3 L. h. 7–9 p. 299 and figs.

†*Calocylas coronata* p. 33 pl. iv fig. 24, *de stefanii* p. 23 fig. 25 *aculeata* p. 34 fig. 26 spp. n., Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. 28 No. 3.

†*Cantharospyris tuberculatus* sp. n., Miocene, Bergonzano; CARNEVALE T.c. p. 28 pl. iii fig. 19.

†*Carpocanium pulchrum* sp. n., Miocene, Bergonzano; CARNEVALE T.c. p. 30 pl. iv fig. 15.

†*Carposphaena rara* sp. n. Miocene, Bergonzano; CARNEVALE T.c. p. 8 pl. i fig. 4.—*C. ugolinii* fig. 4, *miocaenica* fig. 5, p. 4, spp. n., Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. 28.

Castanidium moseleyi and *variabile*, structure and spore-formation described; SCHMIDT Zool. Jahrb. Anat. 27 pp. 243–280 pls. xviii–xx.

†*Cenellipsis bergontianus* sp. n., Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. 28 No. 3 p. 19 pl. iii figs. 5–7.—*C. ovoides* p. 9 fig. 22, *ugolinii* p. 10 fig. 23, *simonellii* fig. 24, spp. n., Miocene, Reggio Emilia; PRINCIPI Boll. Soc. geol. ital. 28.

†*Cenosphaera de stefanii* p. 3 fig. 1, *taramellii* fig. 2, spp. n., Miocene, Reggio Emilia; PRINCIPI T.c.—*C. aemiliana* pl. i fig. 1, *subtilis* fig. 2, *hispida* fig. 3, p. 7, spp. n., Miocene, Bergonzano CARNEVALE Mem. Ist. ven. 28 No. 3.

†*Cornutanna elegans* sp. n., Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. 28 p. 14 fig. 43.

†*Cyrtocalpis globosa* p. 14 fig. 44, *ovoides* p. 15 fig. 45, spp. n., Miocene Reggio Emilia; PRINCIPI T.c.

†*Cyrtocapsa polygonalis* fig. 61, *inaequispina* fig. 62, *marinelli* fig. 63 p. 19 spp. n., Miocene, Reggio Emilia; PRINCIPI T.c.

†*Dictyocephalus bergontianus* p. 32 pl. iv fig. 20, *crassus* p. 32 fig. 21, spp. n., Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. 28 No. 3.

†*Dictyospyris meneghinii* sp. n., Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. 28 p. 14 fig. 42.

†*Dorcadospyris magnipora* sp. n., Miocene, Reggio Emilia; PRINCIPI T.c. p. 13 fig. 40.

†*Doryconthidium parvistylus* fig. 8, *longistylus* fig. 9 p. 5, spp. n., Miocene, Reggio Emilia; PRINCIPI T.c. — *D. maximum* p. 11 pl. ii fig. 1, *aculeatum* pl. i fig. 20, *vinassianum* p. 12 fig. 16, *isoacanthos* p. 12 pl. i fig. 7, *polystylus* pl. ii fig. 2, spp. n., Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. 23 No. 3.

†*Dorydiscus* gen. n. (*Phacodiscida*) *bergontianus* sp. n., Miocene, Bergonzano; CARNEVALE T.c. p. 21 pl. iii fig. 13.

†*Dorydruppa bassanii* fig. 27, *dainellii* fig. 28 p. 11, spp. n., Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. 28.

†*Dorylonchidium fucinii* fig. 10, *spinosum* fig. 11 p. 6, spp. n., Miocene, Reggio Emilia; PRINCIPI T.c.—*D. pantanellii*, p. 11 pl. i fig. 19, *rüstii* p. 11 fig. 12, spp. n., Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. 28 No. 3.

†*Doryphacus* gen. n. (*Phacodiscida*), *porcacanthos* p. 22 pl. iii fig. 15, *bergontianus* p. 22 fig. 14, spp. n., Miocene, Bergonzano; CARNEVALE T.c

†*Dorysphaera longispina* sp. n., Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. 28 p. 5 fig. 7.

†*Druppastylus* (*Doryprunum*) *cayeuxii*, sp. n., Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. 28 No. 3 p. 20 pl. iii fig. 9.

†*Druppatractus agostinelli*, sp. n., Miocene, Bergonzano; CARNEVALE T.c. p. 20 pl. iii fig. 10.

†*Druppocarpus spinosum* sp. n., Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. 28 p. 11 fig. 29.

†*Eucyrtidium isseli* fig. 56, *apenninicum* fig. 57, *aculeatum* fig. 58, p. 18 spp. n., Miocene, Reggio Emilia; PRINCIPI T.c.

†*Eusyringium curvispina* sp. n., Miocene, Reggio Emilia; PRINCIPI T.c. p. 18 fig. 59.

†*Haliomma serratipora* sp. n., Miocene Reggio Emilia; PRINCIPI T.c. p.9 fig. 21.

†*Hexacontium subtile* sp. n., Miocene, Bergonzano; CARNEVALE Mem. Ist ven. 28 No. 3 p. 17 pl. ii fig. 15.

†*Hexalonche hindei* p. 16 pl. ii fig. 13, *dendrostylus* p. 17 pl. ii fig. 14, spp. n., Miocene, Bergonzano; CARNEVALE, T.c.

†*Hexastylus rosai* p. 16 pl. ii fig. 11, *angelaccii* p. 16 fig. 12, spp. n., Miocene, Bergonzano; CARNEVALE, T.c. — *H. gortanii* sp. n., Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. 28 p. 9 fig. 20.

†*Histriastrum martinianum*, sp. n., Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. 28 No. 3 p. 26 pl. iv. fig 11.

†*Lithapium acutispina* sp. n., Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. 28 p. 10 fig. 25.

†*Lithatractus miocaenica* sp. n., Miocene, Reggio Emilia; PRINCIPI T.c. p. 11 fig. 30.

†*Lithomespilus rarus* sp. n., Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. 28 No. 3 p. 19 pl. iii fig. 8.

†*Lithomitra laevigata* sp. n., Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. 28 p. 17 fig. 55.

†*Lychnocanium parvum* sp. n., Miocene, Reggio Emilia; PRINCIPI T.c. p. 15 fig. 46.

†*Odontosphaera haeckelii* p. 9 pl. i fig. 11, *longispina* p. 10 fig. 18 spp. n., Miocene Bergonzano; CARNEVALE Mem. Ist. ven. 28 No. 3.

†*Ommatodiscus multipora* fig. 36, *pseudospiralis* fig. 37 p. 13, spp. n., Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. 28.—*O. pantanellii* p. 24 pl. iv fig. 6, *simonellii* p. 25 fig. 7, *reniformis* fig. 8, *circularis* p. 26 fig. 9, spp. n. Miocene Bergonzano; CARNEVALE Mem. Ist. ven. 28 No. 3.

†*Phacostylus del-lupi* sp. n., Miocene. Bergonzano; CARNEVALE T.c. p. 22 pl. iii fig 16.

Phacocolla pygmeaa Lebradorstrom, *floridiana* Floridastrom, *ambigua* Atlantic, spp. n.: BORGERT Ergeb. Plankton, Exped. Bd 3 L.h. 7–9 pp. 288–289 and figs.

†*Porodiscus bergontianus* p. 23 pl. iv fig. 2, *squinaboli* fig. 3, *ellipticus* fig. 4, *fortii* p. 24 fig. 5, spp. n., Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. 28 No. 3.—*P. bassanii* fig. 31, *vinassai* fig. 32, *laevigatus* fig. 33, *parrus* fig. 34, *spiraliformis* fig. 35, p. 12. spp. n., Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. 28.

†*Prunulum exagonatum* sp. n., Miocene. Reggio Emilia; PRINCIPI T.c. p. 10 fig. 26.—*P. regulare* sp. n., Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. 28 No. 3 p. 19 pl. iii fig. 9.

†*Sethoconus subtilis* sp. n., Miocene, Bergonzano; CARNEVALE T.c. p. 31 pl. iv fig. 16.

†*Sethocorys bussonii* p. 31 pl. iv fig. 17, *cristata* p. 31 pl. iv figs. 18 and 19,

spp. n., Miocene, Bergonzano; CARNEVALE T.c.

†*Sethocyrtis parva* fig. 47, *colettii* fig. 48 p. 15 **spp. n.** Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. **28**.

†*Siphonosphaera rariporata* p. 10 pl. i fig. 17, *minima* fig. 21, *squinaboli* fig. 14, *preveriana* p. 10 fig. 13, **spp. n.**, Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. **28** No. 3.

†*Sphaerostylus nevianii* **sp. n.**, Miocene, Bergonzano; CARNEVALE T.c. p. 13 pl. ii fig. 4.

†*Spongopyle dreyerii* **sp. n.**, Miocene, Bergonzano; CARNEVALE T.c. p. 27 pl. iv. fig. 13.

†*Spongotrochus berciglii* **sp. n.**, Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. **28** p. 13 fig. 39.

†*Stauracontium cameranii* **sp. n.**, Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. **28** No. 3 p. 15 pl. ii fig. 10.

†*Staurolonche rara* **sp. n.**, Miocene, Bergonzano; CARNIVALE T.c. p. 15 pl. ii fig. 8.—*S. capellinii* **sp. n.**, Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. **28** p. 8 fig. 18.

†*Staurosphaera canavarii* **sp. n.**, Miocene, Reggio Emilia; PRINCIPI T.c.

†*Stauroxiphos communis* **sp. n.**, Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. **28** No. 3 p. 15 pl. ii fig. 9.

†*Stichocapsa brevicauda* p. 20 fig. 65, *cylindroides* p. 21 fig. 66, **spp. n.**, Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. ital. **28**.

†*Stichocorys martellii* p. 16 fig. 52, *aemiliana* p. 17 fig. 53, *bonarellii* p. 17 fig. 54, **spp. n.**, Miocene, Reggio Emilia; PRINCIPI T.c.

†*Stylocapsa* **gen. n.** (near *Cyrtocapsa*) *exagonata* **sp. n.**, Miocene, Reggio Emilia; PRINCIPI T.c. p. 20 fig. 64.

†*Stylodictya ciccioni* **sp. n.**, Miocene, Reggio Emilia; PRINCIPI T.c. p. 13 fig. 38.—*S. paroniana*, **sp. n.**, Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. **28** No. 3 p. 26 pl. iv fig. 10.

†*Stylosphaera undulata* p. 13 pl. i fig. 15, *isoporata* p. 13 pl. ii fig. 3, **spp. n.**, Miocene, Bergonzano; CARNEVALE T.c.—*S. haeckeliana*, **sp. n.**, Miocene, Reggio Emilia; PRINCIPI Boll. soc. geol. **28** No. 3 p. 6 fig. 13.

†*Syringium* **gen. n.** (near *Eusyringium*) *vinassai* **sp. n.**, Miocene, Reggio Emilia; PRINCIPI T.c. p. 19 fig. 60.

†*Tesserastrum fortii* **sp. n.**, Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. **28** No. 3 p. 27 pl. iv fig. 12.

†*Tessarospyris pododendros* **sp. n.**, Miocene, Bergonzano; CARNEVALE T.c. p. 28 pl. iii fig. 18.

Thalassicolla porosa Norwegen p. 47, *brandti* Mittelmeer p. 49, *grandevacuolosa* Südäquatorialstrom p. 52, *borealis* Golfstrom, p. 53, *nationalis* Guinea u. Golfstrom p. 54, *irmingiana* Irminger See p. 56, **spp. n.**; LUDWIG Berlin (E. Ebering) 1908.

Thalassoxanthium bivolutum p. 73, *mixtum* p. 75, *flavescens* p. 79, *mirabile* p. 82, *asperum* p. 84, *quadriramosum* p. 86, **spp. n**, Atlantic; LUDWIG T.c.

†*Thecosphaera lophophilla* p. 8 pl. i fig. 5, *stylodendra* fig. 6, *paroniana* p. 9, fig. 8, *leptococcos* fig. 10, *spiralis* p. 9 fig. 9, **spp. n.**, Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. **28** No. 3.—*T. saccoi*, **sp. n.**, Miocene, Reggio Emilia; PRINCIPI Boll. Soc. geol. ital. **28** p. 4 fig. 6.

†*Theocapsa gibba* **sp. n.**, Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. **28** No. 3 p. 34 pl. iv fig. 27.

†*Theocorys de stefani* fig. 49, *italica* fig. 50, *brevicornis* fig. 51, p. 16, **spp. n.**, Miocene, Reggio Emilia; PRINCIPI Bull. soc. geol. ital. **28**.

†*Theopera fragilis* p. 32 pl. iv fig. 22, *aculeata* p. 33 fig. 23, **spp. n.**, Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. **28** No. 3.

†*Tristylospyris sphaerococcos*, **sp. n.**, Miocene, Bergonzano; CARNEVALE T.c. p. 28 pl. iii fig. 17.—*T. raripora* **sp. n.**, Miocene, Reggio Emilia; PRINCIPI Boll. Soc. geol. ital. **28** p. 14 fig. 41.

†*Xiphatractus brevispina*, **sp. n.**, Miocene, Bergonzano; CARNEVALE Mem. Ist. ven. **28** No. 3 p. 20 pl. iii fig. 11.

†*Zygospyris brevispina*, **sp. n.**, Miocene, Bergonzano; CARNEVALE T.c. p. 29 pl. iii figs. 12 and 20.

3. SPOROZOA.

(a) Gregarinidea.

Polycystid Gregarines, general account (Japanese); AKIYAMA. Dobuts. Z. **21** pp. 361–375, 434–452, 508–518 with pl.

Etudes sur la sexualité chez les Grégarines (*Pterocephalus*, cert. *Actinocephalidae* and *Greg. munieri*); LÉGER et DUBOSQ Arch. Protistenkunde **17** pp. 19–134 pls. i–v and 26 text figs.

Gregarinen aus dem Darmkanal von *Balanus*, Beschreibung; MAVRODIADI Mém. Soc. nat. **32** pp. 101–132 1 Taf.

Cephaloidophora **gen. n.** *communis* **sp. n.** Darmkanal von *Balanus*; MAVRODIADI Mém. Soc. nat. **32** pp. 115–123 pl. i figs. 7–11.

Angeiocystis audouiniae, life-cycle; BRASIL Arch. Protistenkunde **16** pp. 125–137 pl. x.

Cystobia eupyrgi **sp. n.**, character of sporocyst only; DOGIEL Arch. Protistenkunde **16** p. 196 text fig. 1b.

Doliocystis legeri **sp. n.**, in *Glycera*, *D. elongata*, notes; BRASIL Arch. Protistenk. **16** pp. 112–125 pl. vii figs. 1–5 pl. viii figs. 1–5 pl. ix figs. 1–13.

Frenzelina chthamali **sp. n.**, note only; LÉGER & DUBOSCQ Arch. Protistenk. **17** p. 114 and text fig. 28.

Gregarina ctenocephali-canis **sp. n.** account of phases in life-history, Ross Ann. trop. Med. Parasitol. **2** pp. 359–363.

Hoplorhynchus oligacanthus, reproduction sexuée (anisogame); LÉGER et DUBOSCQ C. R. Acad. sci. **148** pp. 190–193.

Merogregarina **gen. n.** (near *Selenidium*) *amaroucii* **sp. n.**, structure and development; PORTER Arch. Protistenkunde **15** pp. 227–248 pl. xxii.

Monobidia **nom. nov.** for *Monobia*, Schneid. praeocc; COCKERELL Zool. Anz. **34** p. 565.

Pileocephalus striatus **sp. n.**, from larva of *Ptychoptera*, notes; LÉGER & DUBOSCQ Bull. Acad. Roy. **1909** pp. 831 and 887 figs. 1–5.

Pterospora ramificata **sp. n.**, from *Maldane sarsi*, character of sporocyst only; DOGIEL Arch. Protistenkunde **16** p. 200.

Schizocystis gregarinoides, life-cycle; LÉGER Arch. Protistenkunde **18** pp. 83–110 pls. v and vi and 11 text figs.

Selenidium sp., aus *Amphiporus*, Vorgänge der Schizogonie; AVERINTZEFF Arch. Protistenkunde **16** pp. 71–80 Taf. iv.

Selenidium mesnili **sp. n.** in *Myxicola*, *S. pendula*, notes; BRASIL Arch. Protistenkunde **16** pp. 107–112 pl. vii figs. 2 and 6–8.

(b) Coccidiidea.

Adelea ovata, multiple Kern-Teilung und Reduktion; JOLLOS Arch. Protistenkunde **15** pp. 249–262 pls. xxiii and xxiv.

Barrouxia spiralis **sp. n.** from *Cerebratulus*, Fortpflanzung, Kern; AVERINTZEFF St. Peterburg Trav. Soc. nat. Sect. zool. **40** 2 pp. 1–96 1 Taf. and Arch. Protistenk. **18** pp. 11–47 25 text figs.

Coccidium ranarum, notes on sporogony; DOBELL Q. J. Microsc. Sci. **53** p. 260 pl. v figs. 91–97.—*C. rouxi* **sp. n.**, from the tench, life-cycle; ELMASSIAN Arch. zool. Sér. 5 **2** p. 233–245 pl. vi.

Rhabdospora thelohani, Laguesse, occurring in fishes, not really a Sporozoan parasite at all, but merely altered or peculiar tissue-cells; LÉGER & DUBOSCQ C. R. Acad. Sci. **148** pp. 1547–1549.

Selenococcidium **gen. n.**, *intermedium* **sp. n.**, from lobster, peculiar schizogony, gametogony; LÉGER & DUBOSCQ C. R. Acad. sci. **148** pp. 364–365.

(c) Haemosporidia.

Contribution à l'étude des Hémogregarines de quelques Sauriens d'Afrique: nouveau procédé de recherche des kystes de multiplication; LAVERAN et PETTIT Bul. soc. path. exot. **2** pp. 506–514 av. figs.

A remarkable new endoglobular parasite, *Immanoplasma* **gen. n.** *scylii* **sp. n.**, of uncertain affinity, from *Scyllium canicula*, described; NEUMANN Zs. Hyg. **64** pp. 90–97 pl. vi.

Intracellular blood-parasites of uncertain nature in the mole; VRUBLEVSKI Mess. med. vet. soc. **21** pp. 414–416 and 2 text figs.

Globidium **gen. n.** A peculiar Piscine parasite, regarded as new, *multifidum*

sp. n. [perhaps connected with the schizogony of some Haemogregarine ?] from *Arnoglossus grohmanni* and *Gobius minutus* ; NEUMANN Zs. Hyg. **64** pp. 83–90 pl. v figs. 32–39.

A Haemosporidian of uncertain nature (Haemogregarine ?) from the blood of an Orpington fowl ; GALLI-VALERIO Centralbl. Bakt. Abth. 1 **51** Orig. p. 542 text fig. 3.

Achromaticus vesperuginis, stages in bat and in bat-mite, described ; NEUMANN Arch. Protistenk. **18** pp. 1–10 pl. i.

"*Haemamoeba*" *danilewskyi* var. *hirundinis* Serg. & Serg. ; SERGENT & SERGENT C. R. Soc. Biol. **58** p. 57 1 text fig.

Haemocystidium chelodinae **sp. n.** from *Chelodina longicollis* described ; JOHNSTON & CLELAND Sydney J. R. Soc. **43** pp. 97–103 and figs.

Hemogregarina agamae **sp. n.** ; LAVERAN et PETTIT Bul. Soc. path. exot. **2** p. 512 and figs.—*H. algiri* **sp. n.** from *Zamenis* ; MANCEAUX Arch. Inst. Pasteur Tunis **3** p. 188 figs. A–I.—*H. amethystina* **sp. r.**, from python, Australia ; JOHNSTON Rec. Austr. Mus. **6** pp. 257–259 pl. lxxii.—*H. boskiani* **sp. n.**, from *Acanthodactylus*, note ; CATOUILLARD Bull. Soc. path. exot. **2** pp. 145 and 146 with fig.—*H. caimani* **sp. n.** ; CARINI T.c. pp. 471–472 and 2 figs.—*H. capsensis* **sp. n.**, from *Acanthodactylus pardalis* : CONOR T.c. pp. 143 and 144 figs.—*H. chelodinae* **sp. n.** diagnosed ; LAVERAN & PETTIT T.c. p. 380 fig.—*H. dimorphon* **sp. n.** from a tortoise ; BRIMONT C. R. Soc. Biol. **67** p. 169.—*H.* (cf. *Karyolysus*) *gightiensis* **sp. n.** from *Lithorhynchus* ; CUÉNOD Bull. Soc. path. exot. **2** pp. 43 and 44 figs.—*H. hetero-nucleata* **sp. n.**, from *Leptodactylus* ; CARINI T.c. pp. 469–471 and 2 figs.—*H. moreliae* from *Python* (*Morelia*) *spilotes* p. 404 pl. xxxiv figs. 1–12, *pseudechis* from *Pseudechis porphyriacus* p. 406 pl. xxxv. figs. 13–20, *clelandi* from *Chelodina oblonga* p. 407 pl. xxxv figs. 1–12 **spp. n.**, diagnosed ; JOHNSTON Proc. Linn. Soc. **34**.—*H. nicollei*, *minuta* **spp. n.** ; *schaudinni* var. n. *africana* ; FRANÇA Arch. Inst. Pasteur Tunis **4** pp. 139–142 and figs.—*H. schaudinni* França p. 346 pl. x figs. 1–9 and 11–14, var. *africana* p. 351 fig. 10, *H. curvirostris* Bill. p. 352 figs. 15 and 16, *biretorta* Nic. p. 354 fig. 17, *nicollei* p. 355 fig. 18, *minuta* p. 357 fig. 19, all from *Lacerta ocellata* [doubtful how far these are really distinct species] ; FRANÇA Arch. R. Inst. Bact. **2**.—*H. pallida* **sp. n.** ; FRANÇA Bul. soc. path. exot. **1** pp. 595 and 596 figs.—*H. plimmeri* **sp. n.**, from *Lachesis*. p. 74 text.-fig 43, *H. robertsoni* **nom. nov.** for "*Trypanosoma pythonis*" Robertson p. 40 ; SAMBON J. trop. Med. **12**.—*H. pituophis* **sp. n.**, and other Haemogregarines, occurrence and notes on schizogonous cysts and merozoites ; LAVERAN et PETTIT C. R. Acad **149**. sci. pp. 94–97 and 10 figs.—*H. polypartita* p. 26, pl. i figs. 1–47, *minuta* p. 35 pl. i figs. 48 and 49, *clavata* p. 36 pl. ii figs. 1–11, *torpedinis* p. 38 pl. ii figs. 12–22, *scorpaenae* p. 40, **spp. n.**, occurrence and description ; NEUMANN Zs. Hyg. **64**.—*H. sebai* **sp. n.**, from python. various phases described : LAVERAN et PETTIT C. R. Acad. sci. **148** pp. 1142–1146 and 9 text figs.—*H. stepanovi* Danilewsky. stages found in the blood of turtles ; HAHN Arch. Protistenkunde **17** pp. 307–376 pls. xvi–xviii.—*H. tupinambis* **sp. n.**, described ; LAVERAN et SALIMBENI C. R. Acad. sci. **148** pp. 132–134 and 7 text. figs.—*H. tupinambisi*, *missoni* **spp. n.**, notes ; CARINI Rev. Soc. Sci. Sao Paulo **4** (extract) 4 pp.—*H. carinii* **nom. nov.** (for *H. tupinambisi* Carini), to avoid confusion with *H. tupinambis* Lav. & Salim. : distinctions between the two spp. ; LAVERAN C. R. Soc. Biol. **69** pp. 9 and 10.

Haemogregarines of snakes, general account, with description of species ; SAMBON J. trop. Med. **12** pp. 22–24, 38–41, 48–55 and 70–75 text figs. 3–44.—Haemogregarines unspec., from various French West African Reptiles, notes on ; BOUET C. R. Soc. Biol. **66** pp. 741–743.—Haemogregarines unspec., from blood of Surinam snakes, notes ; FLU Arch. Protistenkunde **18** pp. 190–206 pl. xii.

Halteridium (*danilewskyi* sens. lat.) des oiseaux en Grèce : étude biologique ; CARDAMATIS Centralbl. Bakt. Abt. 1 **52** Orig. pp. 351–367 2 pls.—*H. nettionis* **sp. n.**, from *Nettion* (*Anas*) *castaneum*, diagnosed ; JOHNSTON and CLELAND Proc. Linn. Soc. **34** p. 503 figs. 15–17.—*H. oryzivorae* **sp. n.**, from

Padda, notes on gametocytes and also schizogony; ANSCHÜTZ Centralbl. Bakt. Abth. 1 **51** Orig. pp. 654–659 and 2 pls.—*H. ptilotis*, from *Ptilotis*, *philemon*, from *Philemon corniculatus*, *geocichtae* from *Geocichta lunata*, *meliornis* from *Meliornis novae hollandiae*, **spp. n.**, CLELAND and JOHNSTON Sydney J. R. Soc. **43** pp. 77–90 and figs.—*H.* ("*Haemamoeba*") *melopeliae*, **sp. n.**, gametocytes and possibly schizogony; LAVERAN & PETTIT C. R. Soc. Biol. **66** pp. 952–954 13 text-figs.—*H. sp.*, from chaffinch, occurrence of nuclear dimorphism in; WOODCOCK Q. J. Microsc. Sci. **53** pp. 339–349 and 14 text-figs.—*H.* spp. from pigeon, sparrow and greenfinch), early stages in development of ookinetes; MEZINESCU C. R. Soc. Biol. **66** pp. 329–330 and 7 text figs.

Leucocytozoon caulleryi **sp. n.**, from domestic fowl (Tonkin) [probably only rounded off or liberated gametocytes seen]; MATHIS & LÉGER C. R. Soc. Biol. **67** pp. 470–472.—*L. c.*, periodicity of sexual forms in the blood; ID. T.c. pp. 688–690.—*L. mesnili* **sp. n.**, from Tonkin partridge; LÉGER et MATHIS Ann. Inst. Pasteur **23** pp. 741–743 pl. xix.—*L.* sp., from *Guttera pucherani* Hartl., gametocytes; KEYSSELITZ und MAYER Arch. Protistenkunde **16** pp. 237–244 pl. xv.—*L.* sp. (type *ziemanni*), from *Falconisus*; MEZINESCU C. R. Soc. Biol. **66** p. 328.—"*L.*" *piroplasmoides* of epizootic lymphangitis, [really more allied to *Leishmania*], note on; THIROUX et TEPPAZ Ann. Inst. Pasteur **23** pp. 420–425 5 text figs.

Piroplasma bigeminum, mode of multiplication, observed in the living, intracorpuscular condition; NUTTALL Parasitol **2** pp. 341–343 and 1 diagram.—*P. b.* curious ring forms; WELLINGTON J. trop. Med. **12** p. 207.—*P. ninense* **sp. n.**, (type *parvum*) from hedgehog; YAKIMOFF Centralbl. Bakt. Abt. 1 **52** Orig. pp. 472–477 1 pl. and in Arch. Veterin. Nauk. **39** pp. 781–787.—*P. tarandi rangiferis* [sic!] **sp. n.**, Bau, Theilung; KERZELLI Arch. veterin. nauk. **39** pp. 549–552 1 Taf.—*P.* sp. of horses (probably *equi*), notes on various developmental forms in the tick (*Dermatocentor*); MARZINOVSKI & BIELITZER Zs. Hyg. **63** pp. 28–31 pls. v–vii,—*P.* spp., notes on; MARTINI Philippine J. Sci. (B) **4** pp. 121–123 & 1 pl.—*P.* sp. der Schafe in Transkaukasien, Beschreibung; DSCHUNKOVSKI und LUHS Veterin. vrač. **4** pp. 1–4, 17–19.—*P.* sp. der Ziegen in Transkaukasien; ID. T.c. pp. 149–151.

Plasmodium brasilianum in *Brachyurus* and *P. kochi* in *Cercocebus*, development, relation to corpuscles, infection-experiments, comparison with other *P.* spp.; BERENBERG-GOSSLER Arch. Protistenkunde **16** pp. 245–280 pls. xvi–xviii.—*P. vivax*, Schizogonie der Makrogameten; MERZ und BLÜML Geneesk. Tijdschr. Ned. Indie, **48** pp. 194–256 1 pl.—"*P.*" *mesnili*, (sens. lat. = "*Haemamœba*") from *Naia*, *roumei* from *Cinixys*, **spp. n.**; BOUET C. R. soc. biol. **66** pp. 44–45.—*P.* (cf. *Haemocystidium*) *diploglossi* **sp. n.**, described; ARAGAO & NEIVA Mem. Inst. Oswaldo Cruz **1** p. 45 pl. iii figs. 1–13.—*P.* (cf. *Proteosoma*) *tropiduri* **sp. n.**, described; ID. T.c. p. 48 pl. iii figs. 14–21.

Proteosoma (*Haemoproteus*) *passeris* **sp. n.**, from sparrow, *Passer domesticus*; JOHNSTON and CLELAND Proc. Linn. Soc. **34** p. 505 figs. 19–24.

Theileria parva, parasite of East Coast fever, notes on movements; NUTTALL, FANTHAM & PORTER Parasitol **2** pp. 325–340 and 4 diagrams.

Toxoplasma, see under Flagellata.

(d) Myxosporidia.

I Myxosporidia sono Protozoi? EMERY Monitore zool. ital. **20** pp. 247–249.

Myxosporidia (*sens. strict.*), classificatory arrangement according to the mode of spore-formation; AUERBACH Zool. Anz. **35** pp. 248–255.

Ceratomyxa drepanopsettae, spore-formation and conjugation; AVERINTZEFF Arch. Protistenkunde **14** pp. 74–112 and pls. vii and viii.

Gurleya francottei **sp. n.**, from larva of *Ptychopiera*, notes; LÉGER & DUBOSCQ Bull. Acad. Roy. **1909** pp. 831 and 894 figs. 7 and 8.

Leptotheca macrospora **sp. n.**, from *Sebastes*; AUERBACH Zool. Anz. **34** p. 70 text-fig. 2 and Verh. natw. Ver. **21** Abh. p. 59 fig. 2.

Lymphocystis (*Henneguya*) *johnstonei* Woodc., nuclear and chromidial appar-

atus; AVERINTZEFF Arch. Protistenkunde **14** pp. 335–362 and 16 text figs.

Myxidium bergense from *Gadus virens*, mode of infection and developmental phases, *procerum* from *Argentina silus*, note, **spp. n.**; AUERBACH Zool. Anz. **35** pp. 57–61 figs. 1 and 2.—*M. inflatum* **sp. n.**, from *Cyclopterus*; AUERBACH *op. cit.* 34 p. 72 text fig. 3, and Verh. natw. Ver. **21** Abh. p. 60 fig. 3.

Myxobolus esmarkii Woode., probably syn. *M. aeglefini* Auerb.; AUERBACH Zool. Anz. **34** p. 77.—*M. fuhrmanni* **sp. n.**, from *Leuciscus*; AUERBACH Zool. Anz. **34** pp. 65–68 text fig. 1 and Verh. Natw. Ver. **21** Abh. p. 57 fig. 1.—*M. oculi-leucisci* **sp. n.**, in eye of *Leuciscus*; TROJAN Zool. Anz. **34** pp. 679–682 and 3 text figs.—*M. pfeifferi*, sexual phenomena in; MERCIER Mém. Acad. Roy. 8vo. Sér. 2 **2** fasc. vi pp. 1–53 pl. 1.

Nosema bombycis Nägeli, life-cycle, with remarks on the affinities and classification of other Microsporidia; STEMPELL Arch. Protistenkunde **16** pp. 281–358 pls. xix–xxv.—*N. b.*, brief account; STEMPELL Zool. Anz. **34** pp. 316–318 1 text fig. (scheme).—*N. frenzelinae* **sp.n.**, from a Gegarine, sporogony and spores; LEGER et DUBOSCQ C. R. Acad. sci. **148** pp. 733–734.—*N. f.* occurrence and note; *id.* Arch. Protistenk. **17** pp. 117–119 text figs. 31–33. —*N* sp. in Epithelialzellen von *Lineus gesserensis*, Sporogonie: AVERINTZEFF Trav. Soc. nat. Sect. zool. **40** 2 pp. 1–96 mit 1 Taf.

Perezia **gen. n.** (near *Nosema*), *lankesteriae* **sp. n.**, described; LEGER et DUBOSCQ Arch. Zool. Sér. 5 **1** N. et R. pp. lxxxix–xciii and text fig.

Pleistophora periplanetae Lutz und Splendore, Vermehrung; SHIWAGO, Zool. Anz. **34** pp. 647–654 and 7 text-figs.

Sphaeromyxa hellandi **sp. n.**, from *Molva*; AUERBACH Zool. Anz. **34** p. 78 text fig 5 and Verh. Natw. Ver. **21** Abh. p. 67 fig. 5.

Thelohania chaetogastris **sp. n.**, life-cycle; SCHRÖDER Arch. Protistenkunde **14** pp. 119–133 pl. x.—*T. giardi*, sexual phenomena in: MERCIER Mém. Acad. Roy. 8vo. Sér. 2 **2** fasc. vi pp. 1–53 pl. 2.

Zschokkella **gen. n.** (near *Myxidium*) *hildae* **sp. n.**, occurrence and notes on spores; AUERBACH Zool. Anz. **35** p. 62 fig. 3—*Z. h.*, Sporenbildung ("monosporous"); AUERBACH T.c. pp. 240–248 and 4 text-figs.

(e) Sarcosporidia.

Sarcocystis miescheriana Kühn; *gracilis* Ratz; *tenella* Raillet; *blanchardi* Doflein; *bertrami* Doflein; *muris* Blanch; *horváthi* Ratz; aus Ungarn. Beschreibung; RATZ Allatt. Közlem. **8** pp. 1–37, 91–95 Taf. i–iii.—*S. platydactyli* of the gecko, structure of spores; WEBER C. R. Soc. Biol. **66** pp. 1061 and 1062.—*S. tenella, blanchardi*, structure of spores (sporozoites); BETEGH Centralbl. Bakt. Abt. 1 **52** Orig. pp. 566–573 2 pls.

(f) Haplosporidia.

Les Haplosporidies et les Actinomyxidies, deux nouveaux genres [?] de la Systématique des Néosporidies; RAABE Kosmos **34** pp. 452–460.

Ichthyosporidium sp. (cf. *gasterophilum*), from sea-trout, notes on structure; ROBERTSON Proc. Zool. Soc. **1909** i pp. 399–402 pls. lxii–lxiv.

Incertae Sedis.

[Various and doubtful.]

Aporiella (allied to *Microklossia*) *dimorpha* Krass. from *Aporia*, notes; KRASSILSTSCHIK Arch. Protistenkunde **14** pp. 60–63 figs. 109–115.

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4. MASTIGOPHORA.

Mastigophora, general systematic account: WILLEY & HICKSON in Lankester's Treatise on Zoology pt. 1 fasc. i pp. 154–192 and 15 text-figs.

(a) Flagellata.

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"*Crithidia*" *hystrichopsyllae* **sp. n.**, from a mole flea; MACKINNON Parasitol. **2** p. 292 pl. iii figs. 16–27.—"*C*" *melophagi*, **sp. n.**, different forms described; SWINGLE J. inf. diseases **6** pp. 98–121 pls. iii–v.—"*C.*" *nycteribiae* **sp. n.**, from a blood-sucking insect, *Cyclopoda*; CHATTON C. R. Soc. Biol. **67** pp. 42–44 and 5 text-figs—"*C.*" *simuliae* **sp. n.**, from blood-sucking *Simulium*; GEORGEWITCH C. R. Soc. Biol. **67** pp. 480–482 and text-figs. and T.c. pp. 517–519 and text-figs.—"*C.*" sp. from *Tabanus*, structure and developmental phases; PATTON Arch. Protistenkunde **15** pp. 333–362 and pl. x. [These parastes are most probably really trypanomonad phases of a Trypanosome.]

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Herpetomonas aspongopi **sp. n.** from "melonbug," described; ADERS Parasitol. **2** pp. 202–207 2 text-figs.—*H. jaculum* Léger, structure, formation of resistant cysts; BERLINER Arch. Protistenkunde **15** pp. 313–318 pl. xxix figs. 25–48.—*H.* (*Leptomonas*) *agilis* **sp. n.**, from *Harpactor*, note on; CHATTON C. R. Soc. Biol. **66** pp. 981–982.—*H. davidi*, **sp. n.**, from *Euphorbia*; LAFONT C. R. Soc. Biol. **66** pp. 1011–1013.—*H. vespae* **sp. n.**, name only. *H. jaculum*, general account; PORTER Parasitol. **2** pp. 367–388 pl. v.—"*H.*" *ctenophthalmi*, **sp. n.**, from a mole flea [probably really a phase of a Trypanosome]; MACKINNON Parasitol. **2** p. 289 pl. iii figs. 1–15.—"*H.*" sp. beim Reh; KNUTH Zs. InfektKrankh. Haustiere, **6** pp. 357–362 3 Taf.

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Octomitus dujardini **sp. n.**, from frogs and toads, described; DOBELL Q. J. Microsc. Sci. **53** p. 228 pl. iii figs. 29–41.

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Trichomastix batrachorum, described; DOBELL Q. J. Microsc. Sci. 53 p. 207 pl. ii figs. 1–15.

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Trypanoplasma gurneyorum p. 24, figs. 33–39, 56–65, *keysselitzi* p. 27 figs. 40–44, 66–73, **spp. n.** occurrence and description; MINCHIN Proc. Zool. Soc. **1909** i. —*T. helicis* (Leidy), Bau und Naturgeschichte; FRIEDRICH Arch. Protistenkunde **14** pp. 362–395 48 text-figs.

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T. frank sp. n., lethal for cattle, Germany; FROSCH Zs. infektionskrankh. Hausthiere **5** pp. 313–334 1 pl. microphots.; also FRANK & FROSCH T.c.—*T. f.*, notes on morphology; KNUTH Op. cit. **6** pp. 37–15.—*T. gambiense*, developmental forms from the Tsetse-fly (*Gl. palpalis*): KLEINE D. Med. Wochenschr. **35** pp. 1257–1260 and 42 text-figs.—*T. g.* forms noted in *Gl. morsitans*, KLEINE T.c. pp. 1956 and 1957 4 text-figs.—*T. g.* cyclical transmission by, and development phases in *Gl. palpalis*; BRUCE, HAMERTON, BATEMAN & MACKIE Proc. R. Soc. **81B** pp. 405–413 pls. x and xi.—*T. g.* and other Trypanosomes, different types of form in *Glossina palpalis*; KOCH, BECK & KLEINE Arb. Kais. gesundhtsa. **31** pp. 16–30 pls. iii and iv.—*T. gambiense, equinum*, Bau und Zellteilung; SWELLENGREBEL Tijdschr. Ned. Dierk. Ver. Ser. 2 **11** pp. 80–98 and 1 pl.—*T. giganteum*, p. 50 pl. iii figs. 1–7, *variabile* [doubtless really = *raiae*] p. 52 pl. iii figs. 8–31, *scorpaenae* p. 59 pl. iii figs. 32 and 33, *triglae* p. 60, spp. n., occurrence and description; NEUMANN Zs. Hyg. **64**.—*T. granulosum*, p. 19 figs. 1–7, 78–93, *remaki* p. 22 figs. 20–26, *tincae* p. 23 figs. 27–29, 74–76, morphology; MINCHIN Proc. Zool. Soc. **1909** i.—*T. grosi* sp. n., from *Mus sylvaticus* (non-inoculable to white rats and mice): LAVERAN & PETTIT C. R. Soc. Biol. **67** pp. 564 and 565.—*T. ingens* sp. n., occurrence and note; BRUCE, HAMERTON, BATEMAN & MACKIE Proc. R. Soc. **81B** pp. 323 and 324 pl. vii.—*T. lewisi*, microscopic technique in relation to cytological details of: MINCHIN Q. J. Microsc. Sci. **53** pp. 757–808 pls. xxi–xxiii.—*T. l.*, transmission by *Haematopinus*, and developmental forms in the louse described; RODENWALDT Centralbl. Bakt. Abth. 1 **52** Orig. pp. 30–42 pls. i and ii.—*T. l.* in der Rattenlaus *Haematopinus spinulosus*, Entwickelungsstadien und Uebertragung: BALDREY Arch. Protistenkunde **15** pp. 326–332 and 2 text figs.—*T. minasense, cruzi* spp. n., occurrence and preliminary account; CHAGAS Arch. Schiffshyg. **13** pp. 120–122 and 351–353: also Bull. soc. path. exot. **2** pp. 304–307.—*T. m.*, note on: CARINI Arch. Schiffshyg. **13** pp. 447–448.—*T. microti* sp. n.; LAVERAN et PETTIT C. R. Soc. Biol. **67** pp. 798 and 799 and text fig.—*T. noctuae*, and perhaps another form from the Little Owl, *T. lewisi, brucei, equinum* and *equiperdum*, cultural forms and nuclear cytology: ROSENBUSCH Arch. Protistenkunde **15** pp. 263–296 and pls. xxv–xxvii.—*T. pecaudi, T. dimorphon, T. congolense*, specificity of these forms as shown by immunisation experiments; LAVERAN C. R. Acad. sci. **148** pp. 818–821.—*T. platydactyli* sp. n, CATOUILLARD C. R. Soc. Biol. **60** pp. 804 and 805 and 6 text figs.—*T. primeti* sp. n., from *Tropidonotus* (Tonking): MATHIS et LÉGER C. R. Soc. Biol. **67** pp. 572–574.—*T. raiae*, notes on developmental phases in *Pontobdella*; ROBERTSON Q. J. Microsc. Sci. **54** pp. 119–129 pl. ix and 5 text figs.—*T. toddi*, from *Clarias anguillaris* (perhaps the same species as Dutton Todd and Tobey's from *Clarias angolensis*), *T. martini, gallayi, clozeli* and *pontyi*, from various Reptiles, spp. n., notes; BOUET C. R. Soc. Biol. **66** pp. 607–609.—*T. theileri*, notes and comparison with related forms; MAYER Zs. Infektionskrankht. Hausthiere **6** pp. 46–51 2 pls. microphots.—*T. t.* Lav., note on morphology; PEASE J. trop. vet. sci. **4** pp. 538–539.—*T. t.*, from bull. Madras, compared with *T. evansi*; VALLADARES T.c. pp. 544 and 545 pl. xxii.—*T. vespertilionis*, notes; NICOLLE et COMTE Arch. Inst. Pasteur Tunis **4** pp. 202 and 203.—*T. vickersi* sp. n., du singe; BRUMPT Bull. soc. path. exot. **2** pp. 267 and 268.—*T. vittatae* morphology in the blood, and developmental phases in the transmitting leech (*Clepsine*); ROBERTSON Q. J. Microsc. Sci. **53** pp. 665–695 pls. xvi and xvii.—*T.* sp. from Zanzibar, probably *T. dimorphon*, notes on and comparison with other spp.; BRUCE, HAMERTON & BATEMAN Proc. R. Soc. **81B** pp. 14–30 pls. i and ii.—*T.* sp., from *Falco nisus* (found only in cultures); MEZINESCU C. R. Soc. Biol. **66** p. 329.—*T.* sp. of the mole, notes: VRUBLEVSKI Mess. med. vet. soc. **21** pp. 414–416 2 text figs.—*T.* sp., possibly *T. soudanense*, from an African elephant: BRUCE, HAMERTON, BATEMAN & MACKIE Proc. R. Soc. **81B** pp. 414–416 pl. xii.

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—Trypanosomes, known lethal species, nomenclature, grouping and specific distinctions; MONTGOMERY & KINGHORN Ann trop. Med. Parasitol. 2 pp. 323–341.—Trypanosomes, from domestic stock, Northern Rhodesia, various forms (including the true *T. dimorphon*), morphological notes and comparison; MONTGOMERY & KINGHORN Ann trop. Med. Parasitol. 2 pp. 340–371 pls. iii and iv.—Trypanosomes, sp. incert. from various birds (mostly referred to the type "*T. avium*"), not from fishes, described; ZIEMANN Arch. Schiffs u. Tropenhyg. 13 Beih. 3 pp. 1–40 and 6 pls.—Pathogenic Trypanosomen (*T. brucei*, *equinum*, *pecaudum* and *equiperdum*), Entwicklung im Säugetierorganismus; OTTOLENGHI Arch. Protistenkunde 18 pp. 48–82 Taf. ii–iv.—Nouveau Trypanosome d'Afrique (nov.); THELLER Bull. soc. path. exot. 2 pp. 392–395.

(b) Silicoflagellata.

Dictyocha circularis sp. n. p. 35 pl. iv fig. 31, *circularis* fig. 28, *fibula* fig. 29, Moscow, Bergenzano; CARNEVALE Mem. Ist. ven 28 No. 3.

(c) Dinoflagellata.

Peridinida. Organismen ns collitnus; ENTZ Math.-natw. Ber. Ungarn 25 pp. 240–274 and 4 Taf.

Peridinida des Kaspischen Meeres; HENCKEL St. Petersburg Scripta Ist. 27 pp. 112–119.

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Ceratium, monstrous, description and significance discussed; KOFOID Bull. Mus. Comp. Zool. Harvard Coll. 52 pp. 211–257 4 pls.—*C.* sp., probably *Gonyaulax* var., Victoria Nyanza; OSTENFELD Bull. Mus. Comp. Zool. Harvard Coll. 52 p. 175 figs. 15–17.

Gonyaulax tamarensis Ost. var. *tonkinensis*, Kaspisches Meer; HENCKEL St. Petersburg Scripta Ist. 27 p. 116 pl. xxx fig. 17.

Glenodinium gracile sp. n., Kaspisches Meer; HENCKEL S. Petersburg Scripta Ist. 27 p. 118 pl. xxx figs. 1–16.

Murmaniodinium subgen. n. (*Ceratium*), marine, of wide distribution, for *C. macroceros*, *gallicum*, etc.; KOFOID Bull. Mus. Comp. Zool. Harvard Coll. 52 p. 218 text fig. B.

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2. CILIOPHORA

(a) Ciliata.

Anophryoxus Kasachenkow (Stokes) (*A. circulus* Bütschli), conjugation; COLETTE Arch. zool. Sér. 5 1 pp. 247–268 pls. xii and xiii.—*A. minutus* sp. n., from lobster, diagnosed; LEGER & DUBOSCQ C. R. Acad. Sci. 148 p. 342.—*A. parvicirrus* sp. n., Napoli, structure and systematics; PIZZARELLI Arch. Protistenkunde 16 pp. 81–100 pls. i and ii.

Ignotum pastorali Blanchard, ejusdem Fischparasiten, habitat; BOEK Blätter Aquarienkunde 20 pp. 133–134.

Balantidium balantiorum sp. n., from *Rana esculenta*, morphology; WALTER Arch. Protistenkunde 17 pp. 297–306 pls. xiv and xv.

Cepedella gen. n. (Astomata), dipteran sp. n. from *Culex*; POYARKOFF C. R. soc. biol. 66 pp. 96–97.—*C. d.* Poyarkoff, described; CAULLERY & POYARKOFF Bull. sci. France Belgique 43 pp. 162–170 and pl. vi.

Chilodon hexatichus sp. n., morphology, formation of "secondary mouth-opening," conjugation and cell-division; KIRESIK Bull. intern. Acad. Cracovie 1909 1 pp. 75–119.—*C. uncinatus* metamorphosis; MANSON & SANDERS Lancet 1909 1 pp. 832–834 and fig.

Carnoidinium elegans and *C. harpanum*, Cephalopodan hosts and nuclear apparatus; DOBELL Q. J. Microsc. Sci. 53 pp. 182–190 pl. i figs. 1–8.

Cyclophoxenia gen. n. (near *Apiosoma*) *chlorum* sp. n. on Fischer, Beschreibung; BOEK Bl. Aquarienkunde 20 p. 162.

Cothurnia Vigiae Beschreibung, Lebensweise, Teilung; IVANOVSKI Trav. Soc. nat. Sect. zool. **39** 2 pp. 66–72 + Res. franç. 73–76 Taf. ii.

Leucophrys patula, dimorphism of form; v. PROWAZEK Mem. Inst. Oswaldo Cruz. **1** pp. 105–108 pl. vi

Lionotus parvus n. sp. Brazil, conjugation described; PROWAZEK Zool. Anz. **34** pp. 626–628 and 15 text figs.

Nyctotherus parvus, from frogs, *multisporiferus* from guinea-pig, spp. n., sporulation; WALKER Arch. Protistenkunde **17** pp. 297–304 pls. xiv and xv.

Opalina, anatomy and reproduction, full account; METCALF Arch. Protistenkunde **13** pp. 195–375 pls. xiv–xxviii.—*O. dimidiata*, tentakelartige Fortsätze; LINDEN Biol. Centralbl. **29** pp. 648–659 and 11 text figs.

Opalinopsis sepiolae, Cephalopodan hosts and nuclear apparatus; DOBELL Q. J. Microsc. Sci. **53** pp. 190–193 pl. i figs. 9–19.

Opercularia faurei pp. xxi–xxvii. fig. 1, *medians* pp. xxvii–xxix fig. 2, spp. n.; COLLIN Arch. zool. Ser. 5 **2** N. et R.

Ophryoglena parasitica sp. n., dans *Dendrocoelum lacteum*, description; ANDRÉ Rev. Suisse Zool. **17** pp. 273–280 and 3 text figs.

Tiltina magna, observations on life-history; GREGORY J. exp. Zool. **6** pp. 383–431 and 2 pls.

Tintinnidae, vergleichende Studien über Organisation und Biologie; ENTZ Arch. Protistenkunde **15** pp. 92–226 pls. viii–xxi.—*T.*, fresh-water, described; ENTZ Math.-natw. Ber. Ungarn. **25** pp. 197–225 and 4 Taf.—*Tintinnidae*, zur Kenntnis des Weichkörpers, nebst einleitenden Worten über die Hülsenstruktur und die Hülsenbildung, auch Bestimmungstabelle der Gattungen; SCHWEYER Arch. Protistenkunde **18** pp. 134–189 Taf. x and xi.

"*Trichodinopsis*" *paradoxa* Clap. and Lachm., really a *Trichodina*, with which Spirilla are symbiotically associated, thus giving the appearance of a uniform ciliary covering; FAURÉ-FRÉMIET C. R. soc. biol. **67** pp. 113–114.

(b) Suctoria (= Acinetaria).

Suctoria, general account; HICKSON Trans. Manchester Microsc. Soc. **1908** pp. 31–43.

Acineta papillifera, conjugation described; MARTIN Q. J. Microsc. Sci. **53** pp. 357–375 pl. xii and text figs. 1–7.—*A. truncata*, *craterellus*, *constricta*, *cothurnioides*, spp. n., occurrence and diagnoses; COLLIN C. R. Acad. Sci. **149** p. 1094.

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III. PORIFERA OR SPONGIDA

ARRANGED BY

I. B. J. SOLLAS

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Leucosolenia incerta, URBAN Wiss. Ergeb. D. Tiefsee-Exp. **19** Lfg. 1 p. 5.

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†*Porosphaera globularis* Phill. and *P.* sp. (encrusting). HINDE and GOSSLING Croydon Proc. Trans. Microsc. Nat. Hist. Cl. 1909 p. 183.

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(6) LYSSACINA

†*Protospongia fenestrata*, Cretaceous region Sweden, MONNIG & SCHERREL, Lund Univ. Arsskr. 1906 p. 59.

(ii) DICTYONINA.

†*Ventriculites angustatus* and perhaps *mamillaris* Craie phosphatée Picardie, LERICHE C. R. ass. franç. avanc. sci. 37 1908 p. 501.

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Geodia punctata sp. n. W.-Austr., HENTSCHEL in Michaelsen Fauna Südwest-Australiens p. 366.

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Stelletta tuberosa p. 353, *brevis* p. 356, *aurora* p. 361, spp. n., *purpurea* var. n. *grisea* p. 355, W.-Austral., HENTSCHEL in Michaelsen & Hartmeyer: Die Fauna Südwest-Australiens 1909.

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(b) LITHISTIDA.

†*Timorella* gen. n., permica sp. n., Perm Timor, GERTH Centralbl. Min. 1909 pp. 695–700.

(ii) MONAXONIDA.

(a) HADROMERINA.

Cladorhiza grimaldii Atlantic p. 9, *thomsoni* p. 15, spp. n., Antarctic, TOPSENT Monaco Bul. Inst. 1909 No. 151.

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†*C.* sp. Bartonien zone du Guepelle Seine-et-Oise, RAMOND COMBES & MORIN Paris C. R. Ass. franç. avanc. sci. 37 1908 p. 486.

Desmacidon papillata var. n. *minima* p. 372, *papillata* var. n. *conferta* p. 372, *albescens* p. 373, *albicans* p. 374, *Comarella* var. n. *extensa* p. 374, W.-Austral., HENTSCHEL Michaelsen Fauna Südwest Australien.

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Ektypodesyne gen. n. for *Myxilla pars*, *E. foliata* n. n. for *Hymeniacidon foliata* [Fristedt.], LUNDBECK Kobenhavn Medd. Grönl. Hefte 29 pp. 421–460 1 pl.

Ephydatia ramosa, nobis, ANNANDALE Novit. Gunea 5 p. 421.—*E. fluviatilis syriaca* var. n. SYRIA, TOPSENT Bull. soc. Rouen 1909 p. 1.—*E. centrobarensis* (Potts) = *E. indica* Annandale, ANNANDALE Washington Proc. U. S. Nation. Mus. 37 No. 1712 p. 402.—*E.* species of Japan, *E. mucronatispicula* sp. n., ANNANDALE Annot. Zool. Jap. 7 pp. 105–112 pl.

Euhelophloeus gen. n. *pratum* sp. n. near Cape Verde Is., TOPSENT Monaco Bul. Inst. 1909 No. 151 p. 19.

Heteromeyenia plumosa nobis, Ireland, TOWER, ANNANDALE Washington U.S. Nation. Mus. Proc. 37 No. 1712 pp. 405–406 fig. 3.

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†*Keruania cornuta*, notes on structure and association with *Eupagurus*, and comparison with *Cyclactinia*: DOUVILLÉ Bul. Soc. Géol. Sér. 4 **8** pp. 14–17 pl. i.

†*Spongiostroma*, notes on genus, p. 17, *balticum* pl. v figs. 3 & 4 pl. vi. fig. 3, *holmi* pl. v figs. 5 & 6 pl. vi figs. 1–2 4–6, **spp. n.** Silurian, Gottland; ROMPLETZ Stockholm Vet.-Ak. Handl. **43** No. 5 p. 20.

†*GRAPTOLITHIDA.*

†Graptolites, Silurian, Bulgaria, notes: ALLAHVERDJIEW Bul. Soc. géol. Sér 4 **8** pp. 330–341 pl. iv.

†Dendroid Graptolites, Niagaran Dolomites, Hamilton, Ontario, described; BASSLER Smithson. Inst. U. S. Nation. Mus. Bull. **65** 76 pp. 5 pls. & 91 text-figs.

†Graptolites from the *Dictyograptus*-shale, Sweden, described; WESTERGÅRD Lund Univ. Arsskr. **5** Afd. 2 No. 3 figs.

†*Acanthograptus chaetophorus* Gurley, p. 61 text-fig. 84 pl. iii fig. 5, *multispinus* Gurley, p. 61 text-figs. 85–86 **spp. n.** Niagaran, Hamilton Ontario; BASSLER Smithsonian Inst. U. S. Nation Mus. Bull. **65**.

†*Callograptus minutus* var. n. *altus* Gurley p. 15 text-fig. 16, *strictus* Gurley **sp. n.** p. 15 text-fig. 17 pl. iii fig. 3, Niagaran, Hamilton, Ontario; BASSLER, T.c.

†*Dendrograptus phainotheca* Gurley pp. 11–12 pl. ii fig. 2 text-fig. 11, *ontariocnsis* Bassl., p. 12 text-fig. 12 pl. i fig. 4, Niagaran dolomites, Hamilton, Ontario, **spp. n.**; BASSLER, T.c.

†*Dictyonema crassibasale* Gurley pp. 19–24 text-figs. 21–25 pl. iii fig. 1, *stenactinotum* Gurley pp. 30–31 text-figs. 34 35 pl. iii fig. 2, *filiramus* Gurley p. 34 text-figs. 38–40, *desmoides* Gurley pp. 34–35 text-figs. 41–43 pl. iv fig. 3, *percrassus* Gurley pp. 35–36 text-figs. 44–45, *spenceri* Gurley pp. 36–37 text-fig. 46 pl. iv fig. 1, *parallelum* Gurley pp. 37–38 text-fig. 47 pl. iv fig. 2 **spp. n.** Niagaran dolomite, Hamilton, Ontario; BASSLER T.c.

†*Inocaulis diffusus* var. n. *crassiramus* Gurley pp. 53–54 text-fig. 69 pl. v fig. 2, *congregatus* Gurley p. 54 text-fig. 70, *strictus* Gurley p. 54 text-fig. 71 pl. ii fig. 6, *vegetabilis* Gurley p. 55 pl. v fig. 1, *thallosus* Gurley p. 55 pl. ii fig. 5 **spp. n.** Niagaran, Hamilton, Ontario; BASSLER, T.c.

†*Monograptus*, comparison with *Rastrites* and description of certain species, *M. amphibolus* **sp. n.** p. 19 pl. iii figs. 16–21; TORNQUIST Lund Univ. Arsskr. N.F. 2 **3** No. 5.

†*Odontocaulis obpyriformis* Gurley pp. 43–44 text-fig. 55, *occidentalis* Gurley p. 44 text-fig. 56 **spp. n.** Niagara chert, Hamilton, Ontario; BASSLER Smithsonian Inst. U.S. Nation. Mus. Bull. **65**.

†*Plectograptus* **gen. n.** (near *Retiolites*), p. 18 for *Retiolites macilentus* Tornqu., description p. 13 fig 1–12; MOBERG & TORNQUIST Stockholm Sv. Geol. Unders. No. **213**.

†*Rastrites*, comparison of the genus with certain forms of *Monograptus*, and

description of several species, *R. peregrinus* varr. n. *pecten* p. 8 pl. i figs. 25 & 26, *socialis* p. 8 pl. i figs. 27–31, *R. approximatus* var. n. *geinitzi* p. 9 pl. i figs. 32–41; TÖRNQUIST Lund. Univ. Arsskr. N.F. 2 **3** No. 5.

SCYPHOZOA (=*SCYPHOMEDUSAE*).

Scyphomedusae. (In: Reports on the scientific results of the expedition to the eastern tropical Pacific, in charge of Alexander Agassiz, by the U. S. fish commission steamer "Albatross," from October, 1904, to March, 1905). BIGELOW, Mem. Mus. Comp. Zool. Harvard Coll. **37** pp. 13–45 and numerous figs.

Atolla tenella **sp. n.**, Sea of Greenland; HARTLAUB in: Due d'Orleans, Croisière oceanograph. 1907 p. 477 pl. lxxvii figs. 1 & 2.

Atorella vanhöffeni **sp. n.**, East Trop. Pacific; BIGELOW Mem. Mus. Comp. Zool. Harvard Coll. **37** pp. 30–32 pl. i fig. 2; pl. ii figs. 1–8; pl. xii figs. 2–4.

Aurelia aurita and *cerulea*, gonadial grooves in; GOODEY Proc. Zool. Soc. **1909** i pp. 78–81 pl. xxiv.

Cyanea palmstruchii (Swartz), Skagerack and Cattegat, notes on structure and comparison with other known species; ÖSTERGREN Zool. Anz. **34** pp. 464–474.

Lucernaria, Regenerations- und Regulationserscheinungen: CARLGREN Stockholm Vet.-Ak. Handl. **44** No. 2 44 pp. 3 pls.—*Lucernaridae* (*L.* and *Haliclystus* spp.), contribution à l'étude du developpement; WIETRZYKOVSKY C. R. Acad. sci. **149** pp. 746–749.

Nausithoe limpida **sp. n.**, Sea of Greenland; HARTLAUB in Due d'Orleans Croisière oceanograph. 1907 p. 474 pl. lxxvii figs. 3 & 5.

Taeniolhydra, only a phase in the developmental cycle (retarded or quiescent) of a Scyphomedusan; HÉROUARD C. R. Acad. sci. **148** pp. 320–323 text-fig.

ANTHOZOA.

†Anthozoa, Trias (Zlambachmergeln, Fischerwiese, Alt Aussee), notes: HAAS Beitr. Pal. Geol. Oest. Ung. **22** pp. 143–167 pls. v & vi.

ALCYONARIA.

Alcyonaria, Okhamandal (Gulf of Cutch), notes; THOMSON & CRANE Ann. Mag. Nat. Hist. Ser. 8 **3** pp. 362–366 and in Marine Zoology of Okhamandal, India, vol. i pp. 125–135 i pl.

Littoral Alcyonaria, Indian Ocean, described; THOMSON & SIMPSON "Investigator" collection pt. ii 1909 319 pp. 9 pls.

Alcyonaria, Sibirisches Eismeer; KÜKENTHAL St. Petersburg Mém. Ac. Sc. Ser. 8 **18** 15 p. 1–7.

Acabaria planoregularis, ramulosa, squarrosa **spp. n.**, Aru-Inseln; KÜKENTHAL Zool. Anz. **35** pp. 51–52.

Acamptogorgia tenuis **sp. n.**, Indian Ocean; THOMSON & SIMPSON littoral Alcyonaria "Investigator" Collection 1909 p. 230 pl. iii figs. 4 & 8 pl. viii fig. 7.

Acanthoptilum album p. 701 pl. lxxxvi figs. 5–8, *annulatum* p. 703 pl. lxxxvi figs. 11–13 **spp. n.** off California; NUTTING Smithsonian Inst. Proc. U. S. Nation. Mus. **35**.

Acis, generic diagnosis revised, p. 15, *A. ijimai* p. 8 figs. 3 & 13–16, *miyajimai* p. 10 figs. 4–6 17–20 **spp. n.**, coral ground off Prov. Sakuma, Japan; KINOSHITA Tokyo J. Coll. Sci. **27** Art. 7.—*A. ulex* p. 236 pl. i figs. 2 & 5 pl. ix fig. 6 *rigida* p. 237 pl. iv figs. 4 & 9 **spp. n.**, Indian Ocean; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909.

Alcyonium klunzingeri **sp. n.**, Indian Ocean; THOMSON & SIMPSON T.c. p. 2 text-fig. 1.

Anthogorgia glomerata p. 194 pl. ii fig. 8 pl. iii fig. 11, *racemosa* p. 195 pl. ii figs. 2 & 3 pl. viii fig. 14 **spp. n.**, Indian Ocean; THOMSON & SIMPSON T.c.

Anthomastus ritteri **sp. n.**, off California; NUTTING Smithsonian Inst. Proc. U. S. Nation. Mus. **35** p. 687 pl. lxxxiv fig. 3 pl. xc fig. 2.

Antipathes densa, lata, grandiflora **spp. n.**, Japan; SILBERFELD Zool. Anz. **34** p. 761.—*A. d.*, p. 23 pl. i figs. 1 & 3 & text-figs. 7 & 8, *A. l.*, p. 22 pl. ii fig. 2. *A. g.*, p. 26 fig. 5, *pseudodichotoma* **sp. n.**, p. 27 fig. 4, described; SILBERFELD München Abh. Ak. Wiss. **1909** Suppl. Bd. 1 vii.

Astromuricea stellifera **sp. n.**, Okhamandal (Gulf of Cutch); THOMSON & CRANE in "Marine Zoology of Okhamandal, India," pt. i 1909 p. 130 figs. 1–3, also Ann. Mag. Nat. Hist. Ser. 8 **3** p. 361.

Balticina pacifica **sp. n.** off California: NUTTING Smithsonian Inst. Proc. U. S. Nation. Mus. **35** p. 704 pl. lxxxvii figs. 1–2.

Bebryce tenuis **sp. n.**, Indian Ocean; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909 p. 228 pl. vi figs. 4 & 5.

Benthoptilum sertum, Verrill. Irish coast, described: STEPHENS & HICKSON Fisheries Ireland Sci. Invest. **1907** No. 5 p. 19 pl. i.

Calicogorgia tenuis **sp. n.**, Indian Ocean; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909 p. 197 pl. iii fig. 10.

Caligorgia antarctica **sp. n.**, Antarctic; KÜKENTHAL Zool. Anz. **35** p. 48.

Callozostron horridum, carlottae **spp. n.**, Antarctic; KÜKENTHAL T.c. p. 49.

Cavernularia orientalis p. 305 pl. ix fig. 1, *andamanensis* p. 306 pl. ix fig. 3 **spp. n.**, Indian Ocean; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909.

Cirripathes densiflora **sp. n.**, Japan; SILBERFELD Zool. Anz. **34** p. 762.—*C. d.*, described: SILBERFELD München Abh. Ak. Wiss. **1909** Suppl. Bd. **1** vii p. 19.

†*Cladochonus americanus* **sp. n.**, Mississippi Valley, Carboniferous; WELLER Bull. Geol. Soc. Amer. **20** p. 275 pl. x fig. 30.

Dactylonephthya **gen. n.** (allied to *Nephthyidae*), diagn. p. 151, *granulata* **sp. n.**, p. 151 text-figs. 70–72, described, Indian Ocean: THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909.

Dendronephthya irregularis p. 18, *ovata* p. 20 text-figs. 9 & 10, *colombiensis* p. 23 figs. 11 & 12, *cocosiensis* p. 26 figs. 13 & 14, *purpurea* p. 27 fig. 15, *orientalis* p. 30 figs. 16 & 17, *arbuscula* p. 32 figs. 18 & 19, *costato-rubra* p. 34 fig. 20, *macrocaulis* p. 36 fig. 21, *andersoni* p. 38 fig. 22, *translucens* p. 39, *mansoni* p. 40 fig. 23, *padavensis* p. 42 fig. 24, *parvula* p. 44, *thuja* p. 46 fig. 25, *foliata* p. 51 fig. 27, *pentagona* p. 53 fig. 28, *merguiensis* p. 55 fig. 29, *crystallina* p. 56 fig. 30, *andamanensis* p. 58 fig. 31, *persica* p. 60 fig. 32, *dichotoma* p. 62 fig. 33, *ganjamensis* p. 64 fig. 34, *longispina* p. 66 fig. 35, *arakanensis* p. 69 fig. 36, *delicatissima* p. 70 fig. 37, *obtusa* p. 74, *grandiflora* p. 76, *conica* p. 78, *multispinosa* p. 80 fig. 40, *gilva* p. 82 fig. 41, *elegans* p. 85 fig. 42, *gregoriensis* p. 87 fig. 43, *tripartita* p. 88 fig. 44, *brachycaulos* p. 90 fig. 45, *pellucida* p. 92 fig. 46, *varicolor* p. 93 fig. 47, *variata* p. 95 fig. 48, *harrisoni* p. 96 fig. 49, *booleyi* p. 98 fig. 50, *albogilva* p. 100 fig. 51, *inermis* p. 105, *quadrata* p. 107 fig. 52, *ochracea* p. 108 fig. 53, *nicobarensis* p. 110 fig. 54, *rubeola* p. 111 fig. 55, *agaricoides* p. 113 fig. 56, *malabarensis* p. 114, *decipiens* p. 116 fig. 57, *ambigua* p. 117 fig. 58, *elongata* p. 119 fig. 59, Indian Ocean; HENDERSON, in THOMSON & SIMPSON T. c. [These are probably all **spp. n.** Henderson, for although reference is made to diagnoses published by Henderson in Zool. Anz. the Rec. is unable to find that they have yet appeared.]

Echinogorgia macrospiculata p. 219 pl. v fig. 7 pl. iv fig. 8 pl. viii fig. 1, *flexilis* p. 220 pl. i fig. 4, **spp. n.**, Indian Ocean; THOMSON & SIMPSON T.c.

Echinomuricea uliginosa p. 201 pl. iv figs. 6 & 7, *andamanensis* p. 203 pl. viii fig. 2 pl. i fig. 8, *indica* p. 204 pl. iii figs. 2 & 3 pl. viii fig. 4, *ochracea* p. 205, *reticulata* p. 206 pl. i fig. 9 pl. viii fig. 6, *splendens* p. 207, **spp. n.**, Indian Ocean; THOMSON & SIMPSON T. c.—*E. uliginosa* Thoms. & Simps. var. n. *tenerior*, Okhamandal, Gulf of Cutch; THOMSON & CRANE in "Marine Zoology of Okhamandal, India," pt. i 1909 p. 131 figs. 9 10 & 13 also Ann. Mag. Nat. Hist. Ser. 8 **3** p. 364.

Eumuricea pusilla **sp. n.**, off California: NUTTING Smithsonian Inst. Proc. U. S. Nation. Mus. **35** pp. 718–719 pl. lxxxviii figs. 3 & 4.—*E. splendens* p. 258 pl. iv figs. 2 & 3 pl. viii fig. 17, *ramosa* p. 260 pl. viii fig. 15, **spp. n.**, Indian Ocean; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909.

Euplexaura braueri p. 20 pl. ii fig. 8, *parva* p. 21 fig. 9, **spp. n.**, Japan, de-

scribed; KÜKENTHAL Abh. Ak. Wiss. München **1909** Suppl. Bd. **1**.

†*Favosites pyriforme* var. n. *kokomoensis*, Silurian, Kokomo limestone; FOERSTE J. Soc. Nat. Hist. Cincinnati **21** Art. i p. 9 pl. i fig. 17 pl. ii fig. 15—*F. valmeyerensis* **sp.** n., Mississippi Valley, Carboniferous; WELLER Bull. Geol. Soc. Amer. **20** p. 274 pl. x figs. 1 & 2.

Filigella generic diagnosis revised, p. 5, *F. mitsukurii* **sp. n.**, Sagami Bay, p. 1 figs. 1 7–9; KINOSHITA Tokyo J. Coll. Sci. **27** Art. 7.

Gorgonidae (Fams. *Plexauridae*, *Chrysogorgiidae* and *Melitodidae*). Japan. described; KÜKENTHAL Abh. Ak. Wiss. München **1909** Suppl. Bd. **1** v pp. 1–78 & 7 pls.

Halipteris contorta **sp. n.** off California; NUTTING Smithsonian Inst. Proc. U. S. Nation. Mus. **35** p. 707 pl. lxxxvi figs 3–4.

Halisceptrum cystiferum **sp. n.** off California; NUTTING T.c. p. 698 pl. lxxxvi fig. 1.

Isis hippuris Linn. described; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909 p. 180 pl. vi figs. 1–3.

Kophobelemnon intermedium **sp. n.**, Indian Ocean, p. 277 pl. i figs. 1 & 3, systematic positon and diagnosis; THOMSON & SIMPSON T.c.

Lituaria hicksoni **sp. n.**, Indian Ocean, p. 310 pl. ix fig. 2 pl. vi figs. 7 & 8; THOMSON & SIMPSON T.c.—*L. haberei* **sp. n.**, Japan; BALSS Zool. Anz. **34** p. 424 & 3 text-figs.

Melitodes mertoni **sp. n.**, Aru-Inseln; KÜKENTHAL Zool. Anz. **35** p. 51.—*M. ornata* p. 173 pl. v figs. 3 & 9 pl. ix fig. 11, *pulchella* p. 175 **spp. n.**, Indian Ocean; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909.

Menacella gracilis **sp. n.**, Indian Ocean; THOMSON & SIMPSON T.c. p. 221 pl. vi fig. 6 pl. viii fig. 16.

Mopsella spinosa **sp. n.**, Aru-Inseln; KÜKENTHAL Zool. Anz. **35** p. 52.

Muricella arborea p. 255 pl. iii figs. 1 & 5 pl. viii fig. 18, *robusta* p. 257 pl. v fig. 8 **spp. n.**, Indian Ocean; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909.

Nephthya glomerata p. 15 text-fig. 7, *tenuispina* p. 17 fig. 8, **spp. n.**, Indian Ocean; THOMSON & SIMPSON T.c.

Nicella reticulata p. 266 pl. iv fig. 5 pl. viii fig. 12, *pustulosa* p. 267 pl. v fig, 6 pl. viii fig. 11, **spp. n.**, Indian Ocean; THOMSON & SIMPSON T.c.

†*Pachysceptron* **gen. n.** prov. (*Pennatulidae* near *Graphularia*), Trias, Alt-Aussee; HAAS Beiträge Pal. Geol. OestUng. **22** p. 158.

†*Palaeacis bifidus* **sp. n.**, Mississippi Valley, Carboniferous; WELLER Bull. Geol. Soc. Amer. **20** p. 277 pl. x figs. 8–11.

Parabelemnon **gen. n.** (*Veretillidae*). diagnosed p. 307, *indicum* **sp. n.**, p. 308 pl. iii figs. 6 & 7 pl. ix fig. 4, Indian Ocean; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909.

Parantipathes tenuispina **sp. n.**, Japan; SILBERFELD Zool. Anz. **34** p. 761.—*P. t.*, described; SILBERFELD München Abh. Ak. Wiss. **1909** Suppl. Bd. **1** vii p. 20 pl. i figs. 2 & 4.

Paraplexaura **gen. n.** (*Plexauridae*) p. 27, *armata* **sp. n.**, p. 30 pl. ii fig. 11, Japan. described; KÜKENTHAL Abh. Ak. Wiss. München **1909** Suppl. Bd. **1**.

Pennatulids (various genera, *e.g.*, *P. Pteroeides*, *Anthoptilum*), organs of circulation, experimental observations; MUSGRAVE Q. J. Microsc. Sci. **54** pp. 443–481 pls. xxvi & xxvii.

Plexauroides regularis, *spinosa* **spp. n.**, Aru-Inseln; KÜKENTHAL Zool. Anz. **35** p. 50.

Primnoella vanhoeffeni, Antarctic, *delicatissima*, Atlantic, **spp. n.**; KÜKENTHAL T. c. p. 47.

Prochunella **gen. n.** (*Pennatulidae*) for "*Protoeaulon indicum*" Th. & H., *hertwigi* **sp. n.** Japan; BALSS Zool. Anz. **34** p. 427.

Psammogorgia ridleyi **sp. n.** p. 263 pl. ii fig. 5 pl. ix fig. 10, Indian Ocean; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909.—*P. simplex* p. 720 pl. lxxxviii figs. 5 & 6 pl. xc fig. 4, *torreyi* p. 721 pl. lxxxix figs. 1 & 2 pl. xc fig. 5, *spaulding*i p. 721 pl.

lxxxviii figs. 3 & 4 pl. xc fig. 7 **spp. n.**, California; NUTTING Smithsonian Inst. Proc. U. S. Nation. Mus. **35**.

Pseudocladochonus hicksoni Versluys, Japan, described; KINOSHITA Annot. Zool. Jap. **7** p. 121 figs. 12–16.

Pteroides doflcini **sp. n.**, Japan: BALSS Zool. Anz. **34** p. 429.—*P. ilicifolium* p. 288, *intermedium* p. 290 pl. vi fig. 9, *robustum* p. 292, *andamanense* p. 294 pl. vi fig. 6, *indicum* p. 295, *punctatum* p. 296 pl. ii figs. 1 & 4, **spp. n.**, Indian Ocean; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909.

Ptilosarcus quadrangularis description; NUTTING Smithsonian Inst. Proc. U. S. Nation. Mus. **35** pp. 689–697 pl. lxxxiv figs. 4–10 pl. lxxxv figs. 1–11 pl. xci figs. 1–2.

Scleronephthya flexilis **sp. n.**, Indian Ocean; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909 p. 139 text-fig. 68.

Sclerophytum andamanense **sp. n.**, diagnosed; THOMSON & SIMPSON T.c. p. 7 text-fig. 2.

Siphonogorgia variabilis (=*Chironephthya v.* Hicks.) p. 125, *macrospiculata* (=*C. m.* Thoms. & Hend.) p. 128, *media* p. 132 pl. iii fig. 12 pl. ix fig. 7, *palmata* p. 133 text-figs. 60 & 61, *annectens* p. 134 text-figs. 62 & 63, *asperula* p. 136 text-figs. 64 & 65, *duriuscula* p. 137 text-figs. 66 & 67 **spp. n.** Indian Ocean, diagnosed; THOMSON & SIMPSON T.c.

Stachyodes versluysi **sp. n.**, Hickson, Irish Coast, diagnosed: STEPHENS & HICKSON Fisheries Ireland Sci. Invest. **1907** No. 5 p. 10.

Stachyptilum doflcini **sp. n.**, Japan: BALSS Zool. Anz. **34** p. 427.—*S. quadridentatum* **sp. n.** off California; NUTTING Smithsonian Inst. Proc. U. S. Nation. Mus. **35** p. 709 pl. lxxxvii figs. 7–8.

Stenogorgia kofoidi **sp. n.** off California; NUTTING T.c. p. 724 pl. lxxxix figs. 5 & 6 pl. xc fig. 6.

Stereacanthia armata **sp. n.**, Indian Ocean; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909 p. 141 text-fig. 69.

Stichopathes japonica, spinosa **spp. n.**, Japan; SILBERFELD Zool. Anz. **34** pp. 762 & 763, and in München Abh. Ak. Wiss. **1909** Suppl. Bd. **1** vii p. 17.

Studeriotes **nom. nov.** Thomson (for *Studeria mirabilis* Thoms.), described; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909 p. 8 text-figs. 3–6.

Suberogorgia ornata **sp. n.**, Indian Ocean: THOMSON & SIMPSON T.c. p. 164 pl. ii fig. 7.

Telesto ambigua **sp. n.** off California; NUTTING Smithsonian Inst. Proc. U. S. Nation. Mus. **35** p. 686 pl. lxxxiv figs. 1–2 pl. xc fig. 1.—*T. tubulosa* p. 114 pl. iii figs. 1–6, *sagamina* p. 117 figs. 8–11, *T. rosea* p. 119 **spp. n.**, Japan, diagnosed; KINOSHITA Annot. Zool. Jap. **7**.

Tropidopathes **gen. n.** (Antipatharia) *saliciformis* **sp. n.**, Japan; SILBERFELD Zool. Anz. **34** p. 762.—*T. s.* described; SILBERFELD München Abh. Ak. Wiss. **1909** Suppl. Bd. **1** vii p. 19 text-figs. 3 & 4.

Umbellula loma **sp. n.**, off California; NUTTING Smithsonian Inst. Proc. U. S. Nation. Mus. **35** p. 712 pl. lxxxvii fig. 9.

Virgularia ornata p. 281, *fusca* p. 281, **spp. n.**, Indian Ocean; THOMSON & SIMPSON littoral Alcyonaria "Investigator" collection 1909.

Xenia depressa, multispiculata, Viti-u. Tonga-Inseln. **spp. n.**; KÜKENTHAL Zool. Anz. **35** pp. 46–47.

ZOANTHARIA.

†Rugose Corals, studies on the morphology and development; BROWN Ann. Acad. Sci. **19** pp. 45–97 text-figs. 1–19.

Madréporaires des Îles San Thomé et du Prince (Golfe de Guinée); GRAVIER Ann. de l'Inst. Océan. Monaco **1** fasc. 2 28 pp. 2 pls.

†Coralli giurassici del Gran Sasso d'Italia; PREVER Atti Acc. Sc. Torino **44** pp. 986–1001 with 1 pl.

Actiniarien (*Metridium* and *Sagartia*), Regenerations- und Regulationserscheinungen; CARLGREN Vet.-Ak. Handl. **43** No. 9 48 pp. 4 pls.

Actiniae, ostafrikanische Inseln: PAX "Reise in Ostafrika" v. A. Voeltzkow Bd 2 pp. 399–418 Taf. xxii–xxiv.

†*Amphiastraea saccoi* sp. n., Jurassic, Calascio; PREVER Atti Acc. sc. Torino **44** p. 990 pl. i figs. 1 & 2.

†*Amplexus minimus* sp. n., Mid-Devonian, Iserlohn: TORLEY Abh. Geol. Landesanst **53** p. 7.—*A. rugosus* p. 271 pl. x figs. 22–25, *brevis* p. 271 figs. 26–29, spp. n., Mississippi Valley, Carboniferous: WELLER Bull. Geol. Soc. Amer. **20**.—*A. septatus* sp. n., Silurian, Kokomo Limestone: FOERSTE J. Soc. Nat. Hist. Cincinnati **21** Art. i p. 8 pl. i fig. 12 pl. ii fig. 16.

Anactinia gen. n. (*Cerianthidae*), *pelagica* sp. n. Orissa coast, Bay of Bengal, described: ANNANDALE Rec. Ind. Mus. **3** pp. 157–162 pl. ix.

Anemonia dichogama sp. n., Campbell Island: KIRK "Subantarctic Islands of New Zealand" 1909 vol. 1 p. 384 pls. xix & xx.

Balanophyllia diffusa sp. n., Mergui Archipelago: HARRISON & POOLE Proc. Zool. Soc. **1909** ii p. 906 pl. lxxxv fig. 4.

†*Beaumontia americana* sp. n., Mississippi Valley, Carboniferous: WELLER Bull. Geol. Soc. Amer. **20** p. 274 pl. x figs. 3 & 4.

Bolocera africana sp. n., E. Africa: PAX "Reise Ostafrika" Bd **2** p. 400 pl. xxii figs. 1–3.—*B. norvegica* sp. n., Norwegische Küste, diagnosed: PAX Jenaische Zs. **45** p. 341.

†*Bothrophoria* gen. n. (near *Turbinalia*), *ornata* sp. n., Snow Hill island: FELIX Schwed. Südpolar-Exped. **3** Lfg 5 p. 9 pl. i figs. 8–11.

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V. ECHINODERMA

ARRANGED BY

H. L. HAWKINS.

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Arrangement of echinoderms as follows suggested:—

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- I. Sub-phylum Echinodermata Heteroradiata.
  - 1. Class Pelmatozoa.
    - a. Sub-class Crinoidea.
    - b. Sub-class Cystoidea.
    - c. Sub-class Blastoidea.
  - 2. Class Echinoidea.
  - 3. Class Holothuroidea (Bohadschoidea).
- II. Sub-phylum Echinodermata Astroradiata.
  - 1. Class Ophiuroidea.
  - 2. Class Asteroidea.

CLARK **64** p. 184.

Arrangement of echinoderms suggested as follows:—

Phylum Echinodermata.
- I. Subphylum Echinodermata Heteroradiata.
  - A. Pelmatozoa.
    - 1. Crinoidea.
    - 2. Cystidea.
    - 3. Blastoidea.
  - B. Ovozoa.
    - 1. Echinoidea.
  - C. Vermiformes.
    - 1. Holothuroidea (Bohadschoidea).
- II. Subphylum Echinodermata Astroradiata.
  - A. Ophiobrachiata.
    - 1. Ophiuroidea.
  - B. Stellarides.
    - 1. Asteroidea.

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Ueber die Entwicklung der Echiniden-Bastarde mit besonderer Berücksichtigung der Chromatinverhältnisse, BALTZER 9 pp. 5–15.

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†*Clitopygus leymerici* Lamb. syn. of *Cassidulus ovalis*, LAMBERT 171 p. 369.

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†*Coptosoma atacicum*, TONIOLO 286 p. 258.—*C. capense* sp. n. Senonian Need's Camp, WOODS 312 p. 19 pl.

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†*Cyclaster* cf. *aturicus*, FELIX 109 p. 300.—*C.* cf. *oblongus*, TONIOLO 286 p. 265.—*C. Oppenheimi* sp. n. Eocene Istria, TONIOLO 286 p. 263 pl.

†*Cyphosoma* cf. *archiaci* Kreide von Ferghana, FAAS 106 p. 1 & 15 pl. i f. 1–3, *corollare*, LERICHE 187 p. 339.—*C. pseudodiadema*, TORNQUIST 288 p. 386 fig.—*C.* cf. *regulare* Kreide von Ferghana, FAAS 106 p. 3 & 16 pl. i figs. 4–8.—*C.* sp., FILLIOZAT 111.—*C.* sp., TONIOLO 286 p. 257.

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†*Diademopsis*; subgenus of *Hemipedina*, type *serialis*, BATHER 19 p. 109; *D.* diagnosis, TORNQUIST 288 p. 403.—*D. aequituberculata*, BATHER 19 pp. 109–113.—*D. bakeri*, TORNQUIST 288 p. 387 fig.—*D. bowerbanki*, BATHER 19 p. 116.—*D. etheridgei* to *Hemipedina*, PARIS 218 p. 40.—*D. heberti* p. 420 pl., *D. heeri* pp. 387 & 419 pl., *helvetica* sp. n. Lias Württemberg p. 420 pl., TORNQUIST 288.—*D. serialis*, BATHER 19 p. 109.

†*Dictyaster* gen. n. near *Hemiaster lorioli* sp. n., STEFANINI 266 pp. 473–476; *D.*, STEFANINI 268 p. 14.—*D. excentricus* sp. n. (= *Pericosmus dilatatus* Manzetti pars), STEFANINI 266 p. 475, and Id. 268 p. 16 pl.—*D. lorioli* sp. n. Miocene Malta p. 472 pl., *D. malatinus*, STEFANINI 266 p. 475 and 268 p. 15 pls.

†*Dictyopleurus haimei*, FOURTAU 114 p. 125.

†*Diplodetus*; subgen. of *Brissopsis* type *brevistella*, LAMBERT 175 p. 94.—*D. gautieri* sp. n. Cretaceous Madagascar, COTTREAU 75 p. 174 pl.

†*Diplopodia deshayesi*, FOURTAU 114 p. 99.

†*Dipneustes*; Arnaud preoc. *vide Schizopneustes*, THIÉRY 281 p. 64.

†*Discoidea cylindrica*, HAWKINS 136 pp. 148–152 figs.—*D. decorata*, BAUMBERGER 20 p. 26 pl.

Dorocidaris; syn. of *Cidaris* s str., CLARK 68 p. 88.

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D. papillata, syn. of *Cidaris cidaris*, CLARK 68 p. 88.

†*D. petrocoriensis* sp. n., LAMBERT 174 p. 133 f. 9.—*D. saheliensis*, LAMBERT 172 p. 11.—*D. Thieryi* sp. n., LAMBERT 174 p. 125 fig. 7–8.

†*Echinanthopsis*; syn. of *Echinanthus*, LAMBERT 171 p. 364.

†*Echinanthus*; incl. *Echinanthopsis*, LAMBERT 171 p. 364.—*E. angulosus* to *Milletia*, STEFANINI 267 p. 78.—*E. angustipneustes* sp. n. Eocene Martres p. 369 pl., *archiaci* p. 367, *arizensis* ? syn. of *subrotundus* p. 365, *ataxensis*, incl. *carinatus* & *rayssacencis*, *carinatus* var. of *ataxensis* p. 366, *Echinanchus* [*sic*] *cotteaui*, *Echinanthus gourdoni*, *gracilis* p. 368, *heberti* p. 367, LAMBERT 171.—*E. issyavensis*, COURTY and HAMELIN 82 pl. ii f. 33.—*E. marginatus* to *Milletia*, STEFANINI 267 p. 78.—*E. pouechi* ? syn. of *subrotundus* p. 365, *pyrenaicus* incl. *rousseli* p. 367, *rayssacencis* syn. of *ataxensis* p. 366, *rousseli* syn. of *pyrenaicus* p. 367, *scutella*, *subrotundus* p. 365, LAMBERT 171.—*E.* cf. *wrighti*, TONIOLO 286 p. 259 pl.

†*Echinarachnius* cf. *excentricus*, ELDRIDGE and ARNOLD 102 p. 21.

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†*Echinocorys*; range, GROSSOUVRE 129.—*E. conicus*, LERICHE 187 p. 339.—*E. scutatus*, ELSDEN 103 p. 450.

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40 p. 214 pl.—*E. pusillus* varr. *suffolciensis* et *lebesconti*, DOLLFUS **96** p. 352. —*E. pyriformis* syn. of *F. calarensis* p. 127, *stellatus* to *Fibularia* p. 122 *E. studeri* syn. of *F. calarensis* p. 127, LAMBERT **175**.—*E.* cf. *studeri*, STEFANINI **267** p. 74.—*E. umbonatus* Capeder *non* Pomel *nec* de Loriol syn. of *F. stellata* p. 122, *umbonatus* de Loriol to *F. pellati* p. 121, LAMBERT **175**.

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†*Engelia* gen. n. Diadematidae, type *amalthei* Quenst. sp. p. 408 & 424, *arietis* p. 426, TORNQUIST **288**.

†*Eocidaris*: type is *Cidaris laevispina*, *E. keyserlingi* to *Miocidaris*, *munsteriana* and *rossica* to *Echinocrinus*, *scrobiculata*, BATHER **15** pp. 44–61.—*E.* (*Lepidociduris*) *squamosus*, ROWLEY **241** p. 99 pl.—*E. verneuiliana* syn. of *Keyserlingi*, BATHER **15** pp. 44–61.

†*Eodiadema*; included in *Acrosaleniidae*: rediagnosed: genotype is *E. granulatum* p. 100, *E.* sp. Cassian p. 102, BATHER **19**.—*E. granulata*, HORWOOD **147** p. 463.

†*Eotiaris*; syn. of *Miocidaris*, BATHER **15** p. 62.

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†*Fibularia*; maintained, type *tarentina*, LAMBERT **172** p. 36.—*F. acuminata*, incl. *Echinocyamus accuminatus, declivis, mucronatus, lanceolatus, pseudolanceolatus, pseudoumbonatus, linearis, circularis, pseudopusillus*, Capeder, p. 127, *F. ambigua*, incl. *trigona* Capeder *non* Lamarck p. 121, *F. a. elliptica* ? var. n. incl. *gastroides, trigona, capitata* & *elliptica* Capeder p. 127, LAMBERT **175**. —*F. calarensis* sp. n. Miocène Cagliari, LAMBERT **172** p. 40 pl—*F. calarensis*, incl. *Echinocyamus studeri* and *pyriformis* Capeder p. 127 *F. capitata* syn. of *ambigua* var. *elliptica*, *elliptica* = *ambigua* var. *elliptica* p. 128, *gastroid s* syn. of *ambigua* var. *elliptica* p. 127 *gibba* syn. of *ambigua* p. 127, *lovisatoi* sp. n. Miocène Sardaigne, p. 121, LAMBERT **175**.—*F. marioi*, LAMBERT **172** p. 40 and ? a *Thagastea*. Id. **175** p. 127.—*F. miocenica* syn. of *marioi* p. 128, *pellati*, sp. n. Miocène Sardaigne incl. *Echinocyamus umbonatus* de Loriol p. 121 pl., LAMBERT **175**.—*F. pseudopusilla* = (*Echinocyamus* Cott.), LAMBERT **172** p. 39 pl.—*F. stellata*, incl. *Echinocyamus umbonatus* Capeder non Pomel & *infundibuliformis*), p. 122 pl., *trigona* Capeder *non* Lam. syn. of *ambigua* var. *elliptica* p. 128, LAMBERT **175**.

F. nutriens sp. n. N. S. Wales, CLARK **70** p. 557 fig.

†*Gibbaster fastigatus* p. 988 pl. xlix figs. 2 & 5, *gibbus* p. 985 fig., NOWAK **211**.

†*Gisopygus*: FOURTAU **116** p. 133.

†*G. baharichensis* sp. n. Eocène Egypt, FOURTAU **114** p. 132 pl. vii figs. 25–28.—*G. depressus* p. 136 pl. viii figs. 15–16, *elongatus* p. 137 pl. viii figs. 17–19, *teilhardi* p. 135 pl. viii figs. 10–14, spp. n., Eocene Minieh, *zitteli* p. 134, FOURTAU **116**.

†*Gitolampas falax* sp. n. Cretaceous Egypt, FOURTAU **114** pp. 106–115 pl. vi figs. 14–29.

Goniocidaris umbraculum, BENHAM **25** p. 105.

†*Goniopygus* cf. *marticensis*, DACQUÉ und KRENKEL **84** p. 210.—*G. noguesi*, SAVIN **245** p. 132.

†*Gregoryaster* subgen. n. of *Hemiaster* type is *Pericosmus coranguinum*, LAMBERT **172** p. 59 and STEFANINI **268** p. 11.—*G. coranguinum* (*Pericosmus* Gregory), LAMBERT **172** p. 61, *G. c.* to *Hemiaster*, STEFANINI **268** p. 12.—*G. gratcloupi* dist. from *Pericosmus latus* LAMBERT **175** p. 84.

†*Guettaria rocardi* COTTREAU **75** p. 177 pl.

†*Gymnodiadema*; type *choffati* de Loriol, BATHER **19** p. 104.

†*Hemiaster*; incl. *Gregoryaster* as subgen, STEFANINI **268** p. 11, *H. artini*, FOURTAU **114** p. 117 pl. vi figs. 24–26.—*H. boulei* sp. n. Cretaceous Madagascar, COTTREAU **75** p. 171 pl.—*H. cavernosus*, KOEHLER **161** p. 621.—*H. coranguinum*, STEFANINI **268** p. 12 pl.—*H. covazii* to *Opissaster*, TONIOLO **286** p. 262.—*H. cubicus*, FOURTAU **114** p. 118.—*H. forbesi*, KIDNER **158** p. 243.—*H.* aff. *garumnicus*, FELIX **109** p. 300.—*H. koehleri* nom. n. pro *elongatus* Koehler 1908, THIÉRY **282** p. 137.—*H.* (*Leucaster*) *lamberti* sp. n. Cretaceous Madagascar, COTTREAU **75** p. 173 pl.—*H. pseudo-fourneli*, FOURTAU **114** p. 118.—*H. requisanus*, SCHMIDT **251** p. 235.—*H. similis*, PILGRIM **226** p. 15.—*H.* sp. Cretaceous Mexico, BURCKHARDT **33** p. 121.—*H.* ? sp., ETHERIDGE **105** p. 68 pl.—*H.* sp. FILLIOZAT **111**.—*H.* sp., MAITLAND **201** p. 60.—*H.* sp. Cretaceous Fairbanks U.S., PRINDLE **230** p. 24.—*H.* aff.

spissus, FELIX **109** p. 300.—*H. sudanensis*, LEMOINE **186** p. 105.—*H. truncatus* var. of *Trachyaster lovisatoi*, STEFANINI **268** p. 19.

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†*Hemicidaris hoffmanni, intermedia*, SCHMIDT **247** pp. 94 & 131 pl.—*H. langruncnsis*, COTTREAU **75** p. 150 pl.—*H. ruthenensis* (*Plesiocidaris*?) LEMOINE et LAMBERT **183** p. 477.

†*Hemipatagus*; maintained type *hoffmanni* p. 107, *ocellatus* p. 108, LAMBERT **175**.

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†*Holaster grasi*, SAVIN **245** p. 114.—*H. planus*, MEYER **205** p. 375.—*H.* cf. *suborbicularis*, COTTREAU **75** p. 162 pl.

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†*Laganum mazzettii* nom. n. pro. *fragile* Mazzetti 1894, THIÉRY **282** p. 137.

†*Lampadaster gauthieri*, COTTREAU **75** p. 178 fig.

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†*Leptocidaris*; type *triceps* Quenstedt., BATHER 19 p. 103.

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†*Lysechinus*; revised diagnosis: *incongruens* Gregory is type, BATHER 19 p. 68.

†*Macropneustes*; p. 1, *manzonii* sp. n. Miocene Montese p. 4 pl., *sahcliensis* p. 2 pl., STEFANINI 268.—*M.* sp., TONIOLO 286 p. 269.—*M. viglianensis* sp. n. Miocene Montese, STEFANINI 268 p. 4 pl.

†*Magnosia kakhourensis* sp. n. Jurassique Syrie, LORIOL 192 p. 224.

†*Manzonia*; type is *lorioli* nom. nov. pour *pareti*, LAMBERT 175 p. 107.—*M.* syn. of *Linopneustes*, STEFANINI 267 p. 97.—*M. capederi* nom. nov. for *pareti* Airaghi *non* Manzoni, *lorioli* nom. nov. for *pareti* Manzoni *non* Airaghi p. 107, *lovisatoi* sp. n. Oligocène Sardaigne p. 105 pl., LAMBERT 175.—*lovisatoi* syn. of *pareti*, STEFANINI 268 p. 35.

Maretia; dist. from *Hemipatagus* type is *planulata*, LAMBERT 175 p. 107. —*M. anomala*, CHAPMAN 37 p. 216.

†*Mariania*, STEFANINI 267 p. 103 and 268 p. 36; *M.* type is *marmorae*, *chitonosus* to *Spatangus* p. 102, *marmorae* p. 103 pls., LAMBERT 175; *marmorae*, STEFANINI 267 p. 105 pl.

†*Melonites granulatus* (Troost) sp. n. Tennessee Mississippie, *M. multipora*, WOOD 311 p. 107.

†*Meoma* sp. Burdigalian of the Arakan Yoma, HOLLAND 144.

†*Mesodiadema*; rediagnosed type *Hemipedina marconissae* Desor., BATHER 19 p. 114; *M.*, TORNQUIST 288 p. 392.—*M. admeto* prob. not *M.* p. 114, *blaburensis* prob. not *M.* p. 115, BATHER 19.—*M. crinifera* to *Pseudodiadema*, TORNQUIST 288 p. 415.—*M. criniferum* prob. not *M.*, *M. lamberti* p. 114, *Mesodiadema lata* sp. n. Raiblian Bakony p. 118 pl. and p. 122, *marconissae* p. 114, BATHER 19; *marconissae*, TORNQUIST 288 p. 384 fig.—*M. margaritatum* sp. n. Raiblian Bakony, p. 117 pl., *olifex* prob not *M.* p. 114, BATHER 19; *olifex* to *Hemipedina*, TORNQUIST 288 p. 415.—*M. simplex*, BATHER 19 p. 114 and TORNQUIST 288 p. 415.

†*Metalia*; pp. 465–470, *M. melitensis* to *Eupatagus* p. 464, STEFANINI 266; *M. melitensis* is prob. a *Brissoides*, LAMBERT 175 p. 109.—*M.* sp., STEFANINI 268 p. 5 pl.

†*Micraster*, NOWAK 211 p. 979; the species, GOSSELET 123 p. 31.—*M. breviporus*, MEYER 205 p. 375.—*M.* cf. *carentonensis*, FELIX 109 p. 300.—*M. decipiens*, NOWAK 212 p. 877.—*M. gottschei* p. 983 pl. xlix fig. 4, *haasi* p. 985, NOWAK 211.—*M. latus* Sismonda, LAMBERT 175 p. 84.—*M. marginalis*, NOWAK 211 p. 980 pl. xlix fig. 3.—*M. meunieri* p. 170 pl., *nutrix* p. 169 pl., COTTREAU 75.—*M. royalae* sp. n. Oberer Kreide Haliez, NOWAK 212 p. 876 pl. xlvi figs. 1–2.—*M. schroeder*, NOWAK 211 p. 984 pl. xlix fig. 6.—*M.* ? sp. Cretaceous Egypt, FOURTAU 114 p. 115. —*M. sweeti*, BASEDOW 12 p. 342.—*M.* cf. *turonensis*, COTTREAU 75 p. 168 pl.

†*Microcidaris*; dist. from *Triadocidaris* p. 74, *M. venusta* pp. 69 & 75, BATHER 19.

†*Microdiadema*; diagnosis, TORNQUIST 288 p. 409.

†*Micropedina humei* sp. n. Cretaceous Egypt, FOURTAU 114 p. 100 pl. vi figs. 8 & 9.

†*Milletia*; type is *Echinolampas elegantula* p. 75, *angulosa*, *marginata* p. 78 pl., STEFANINI 267.

†*Miocidaris*; rediagnosed incl. *Eotiaris* and prob. *Permocidaris* type *cassiani*, BATHER 15 pp. 61–63 and 19 pp. 83 & 84.—*M. cassiani* nom. nov. for *Cidaris klipsteini* Desor. BATHER 15 p. 61 and 19 p. 84.

M. coaeva, grandaeva, keyserlingi incl. *Cidaris verneuiliana*, BATHER **15** pp. 61–63.—*M. klipsteini* Desor syn. of *Cassiani*, p. 84, *M. planus* **sp. n.** Raiblian Bakony p. 91 pl., spp. indet. α Cassian β Cassian γ Raiblian & δ Cassian Bakony pp. 89–93, BATHER **19**.—*M. subcoronata*, BATHER **15** p. 61.—*M. verrucosus* **sp. n.** Raiblian Bakony, BATHER **19** p. 90 pl.

†*Miopedina*; type *Hemicidaris matheyi* Desor., *M. tuberculosa* to *Hemipedina*, BATHER **19** p. 103.

Mistechinus mayeri, FOURTAU **114** p. 124.

†*Moira* cf. *antiqua*, PILGRIM **226** p. 36.

†*Monodiadema cotteaui*. DOUVILLÉ **99** p. 152 and JOURDY **155** p. 146.

†*Noetlingia boulei*, COTTREAU **75** p. 167 pl.

Notechinus magellanicus var. *neuamsterdami*, KOEHLER **161** p. 616.

Notocidaris **gen. n.** *Cidaridae* p. 17, *gaussensis* p. 18, *hastata* p. 23, **spp. n.**, Antarktik, MORTENSEN **209**.

†*Offaster pilula*, LERICHE **187** p. 339 and NOWAK **211** p. 978.

†*Oligopygus Meunieri*, LEMOINE **182** p. 447, and LEMOINE, BOUSSAC and COTTREAU **184** p. 134.

†*Oolaster mattseensis*, GROSSOUVRE **129** p. 83.

†*Opissaster almerai* p. 78, *cotteaui* incl. *jourdyi* & *mariae*, p. 80, LAMBERT **175**.—*O. corvizii*, TONIOLO **286** p. 262.—*O. jourdyi* syn. of *cotteaui*, LAMBERT **175** p. 80.—*Opissaster libycus* **sp. n.** Eocène Egypt, FOURTAU **114** p. 146 pl. viii figs. 12–16.—*O. lovisatoi*, LAMBERT **175** p. 77; *lovisatoi* to *Trachyaster*, STEFANINI **268** p. 17.—*O. mariae* syn. of *cotteaui* p. 80, *scillae*, p. 81, LAMBERT **175**; *scillae*, STEFANINI **266** p. 470 pl.

†*Oriolampas*; syn. of *Plesiolampas*, LAMBERT **171** p. 364.

†*Orthopsis*; type is *miliaris, globosa, granularis*, BATHER **19** p. 108.—*O. ibanolica* **sp. n.**, Crétacé Syrie, LORIOL **192** p. 232.—*O. miliaris, morgani*, BATHER **19** pp. 108 & 109.—*O. pectata*, DACQUÉ und KRENKEL **84** p. 209.—*O. ruppelli*, FOURTAU **114** p. 100.—*O. suemanni*, BATHER **19** p. 109.

†*Ovulaster zignoi*, DARESTE DE LA CHAVANNE **86** p. 667.

†*Palacchinus* sp. Isle of Man, HIND **140** p. 144.—*P.* sp. radioles Silurian Victoria, CHAPMAN **36** p. 77 pl.

†*Palaeopedina*; prob. syn. *Hemipedina* type is *globulus*, BATHER **19** p. 105, *P.* diagnosis, TORNQUIST **288** p. 140, *P. globulus, minima, pacomei*, BATHER **19** pp. 105–107.—*P. sondelfingensis* **sp. n.** Lias Württemberg, TORNQUIST **288** pp. 427 pl.

†*Palaeostoma zitteli*, FOURTAU **114** p. 145.

Paracentrotus angulosus, KOEHLER **161** p. 641.

†*Parapygus coquandi*, JOURDY **155** p. 147.

†*Parasalenia fontanesi* jeune, LAMBERT **172** p. 31.

†*Pedina*: diagnosis, TORNQUIST **288** p. 411.

†*Peltastes wrightii*, TREACHER **293** p. 119.

†*Pericosmus agassizi* a syn. of *edwardsi*, STEFANINI **268** p. 28, *agassizi* dist. from *edwardsi*, LAMBERT **175** p. 85. pl.—*P. airaghii* **sp. n.** Oligocène Sardaigne, LAMBERT **175** p. 89 pls.—*P. callosus* p. 30, *capellinii* p. 33, STEFANINI **268**.—*P. coranguinum* to *Greyoryaster* as type, LAMBERT **172** p. 61.—*P. dilatatus* Manzetti pars to *Dictyaster excentricus*, STEFANINI **266** p. 475.—*P. edwardsi*, LAMBERT **175** p. 85 and STEFANINI **268** p. 28.—*P. gigas* to *Linthia*, PRITCHARD **231** p. 396.—*P. latus*, LAMBERT **175** p. 83 pl. and STEFANINI **266** p. 481 and **268** p. 26.—*P. longior* p. 90 pl., *lovisatoi* p. 87 pl., **spp. n.** Oligocène Sardaigne, LAMBERT **175**.—*P. malatinus* to *Dictyaster*, STEFANINI **266** p. 475.—*P. nelsoni* to *Linthia*, PRITCHARD **231** p. 399.—*P. oppenheimi* **sp. n.** Oligocène Sardaigne p. 88 pl., *orbignyi* p. 85, LAMBERT **175**; *orbignyi*, STEFANINI **268** p. 29.—*P. pedemontanus* p. 86, *petasatus* **sp. n.** Oligocène Sardaigne, p. 87 pl., LAMBERT **175**.—*P. reichenbachi* pl. vi figs. 3 & 4, *saccoi* figs. 1 & 2, **spp. n.**, Miocene Majella, AIRAGHI **4** p. 259.—*P. spatangoides*, TONIOLO **286** p. 268.

†*Perispatangus*; supprimé, LAMBERT **175** p. 103.

†*Permocidaris*; type is *Cidaris forbesiana*, prob. syn. of *Miocidaris*, *P. coaeva* to *Miocidaris*, *forbesiana*, *verneuiliana*, BATHER **15** pp. 63–65.—*P. verneuiliana* probably identical with *Miocidaris keyserlingi*, BATHER **19** p. 86.

†*Phalacrocidaris senonensis* nom. n. = *Cidaris serrata* Gauthier non Desor., LAMBERT **174** p. 122.

†*Phalacropedina*; type *Hemipedina guerangeri* Cotteau subgen. of *Hemipedina*, BATHER **19** p. 104.

Phormosoma; p. 153, *alternans* p. 155, *verticillatum*, *rigidum*, *adenicum*, p. 156, *placenta*, *sigsbei*, *indicum* p. 157 *bursarium* p. 158 pl. lxii f. 2 & pl. lxiii f. 3, AGASSIZ and CLARK **3**.

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†*P. florescens*, STEFANINI **267** p. 72.—*P. imperialis* pl., *P.* sp. radiole, p. 183, *P. verticillatus* p. 182 pl., COTTREAU **75**.—*P. verticillum*, STEFANINI **267** p. 73 pl.

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†*Plagionotus*, STEFANINI **266** pp. 466–470.

†*Plegiocidaris* rediagnosed *P.*? sp. Cassian, BATHER **19** p. 99.—*P. peroni* p. 9 pl., incl. *Rhabdocidaris compressa testa*, *non radiolus* p. 10, LAMBERT **172**.

†*Pleiocyphus syriacus* sp. n. Jurassique Syrie, LORIOL **192** p. 222.

†*Plesiaster*; sub. gen. of *Brissopsis* type *peinei*, LAMBERT **175** p. 94.

†*Plesiolampas*; incl. *Oriolampas*, *heberti*, *michelini*, LAMBERT **171** p. 364.—*P.* cf. *pacquieri*, LEMOINE **186** p. 105.

†*Pliolampas jourdoni* is an *Echinanthus*, LAMBERT **171** p. 368.—*P. subcarinatus*, LAMBERT **172** p. 58.—*P. vassali*, ANGELIS D'OSSAT **6** p. 42.

†*Polycyphus textilis*, COTTREAU **75** p. 151 pl.

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†*P. schmideli*, COTTREAU **75** p. 180 pl. and FOURTAU **114** p. 121.

Pourtalesia carinata, KOEHLER **161** p. 626.

†*Prammechinus* [sic] *fourtaui* sp. n. vide *Psammechinus*.

†*Prenaster aldingensis* sp. n. ? Eocene Australia, HALL **133** p. 48 pl. xiii.—*P. alpinus*, TONIOLO **286** p. 269 pl.—*P. lamberti* sp. n. Eocene Egypt, FOURTAU **114** p. 147 pl. viii. figs. 8 & 9.

†*Prodiadematidae*; fam. of Liassic Diadematoidea, TORNQUIST **288** p. 391.

†*Progonolampas pseudoangulatus* (*Echinolampas* Cott.), LAMBERT **172** p. 59.

†*Proraster atavus*, FELIX **109** p. 300.

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Protocentrotus annulatus sp. n. S.-Afrika, MORTENSEN **209** p. 61.

†*Prototiara*: diagnosis, *P. jutieri*, TORNQUIST **288** p. 400.

†?*Psammechinus calarensis*, LAMBERT **172** p. 36.—*P. dubius*, CHECCHIA-RISPOLI **40** p. 207 pl.—*P. fourtaui* sp. n. Miocène Sardaigne, LAMBERT **172** p. 33 pl.—*P. microtuberculatus*, CHECCHIA-RISPOLI **40** p. 206 pl.—*P. monilis*, DOLLFUS **96** p. 352.—*P. monilis* var. *depressa* Vinassa di Regny prob. not a *Psammechinus*, LAMBERT **172** p. 33.—*P. romanus* syn. of *Arbacina depressa*, CHECCHIA-RISPOLI **40** p. 208.—*P.* sp., STEFANINI **267** p. 74.—*P.* cf. *tongrianus*, STEFANINI **266** p. 443.

Pseudoboletia maculata, KOEHLER **161** p. 641. pls.

†*Pseudobrissus corsicus*, LAMBERT **175** p. 81.

†*Pseudocidaris gauthieri*, JOURDY **155** p. 146.—*P. thurmanni*, SCHMIDT **247** p. 94.

†*Pseudodiadema*: diagnosis, TORNQUIST **288** p. 406.—*P. balli* **sp. n.** Cretaceous Egypt, FOURTAU **114** p. 97 pl. vi figs. 4–7.—*P. criniferum, gauthieri*, TORNQUIST **288** pp. 423, 424, pl.—*P. mamillanum*, SCHMIDT **247** pp. 94 & 132 pl.—*P. marticeuse*, DACQUE und KRENKEL **84** p. 210.—*P. octoceps*, TORNQUIST **288** p. 421 pl.—*P. revili* **sp. n.** valanginien Val-du-Fier, SAVIN **245** p. 142.—*P. roemeri*, PILGRIM **226** p. 14.—*P.* spp. radioles, SAVIN **245** p. 143 pl.—*P. subalpinum* **sp. n.** Mödling Jura, TOULA **289** p. 120.—*P.* (*Diplopodia*) *subanguare* pp. 94 & 133 pl., *P. thirrai* p. 94, SCHMIDT **247**.

†*Pseudohaimea*: syn. of *Echinoneus*, LAMBERT **172** p. 51.

†*Pseudopygaulus aegyptiacus* **sp. n.** Eocène Egypt, FOURTAU **114** p. 133 pl. vii figs. 29–31.

†*Pygaster* cf. *humilis*, SCHMIDT **247** pp. 94 & 133.—?*P.* sp., TREACHER **293** p. 120.—*P. thomarensis*, CHOFFAT **42** p. 159.—*P. truncatus*, PILGRIM **226** p. 15.—*P. umbrella*, COTTREAU **75** p. 159 pl. & SCHMIDT **247** p. 94.—†*P. zumoffeni* **sp. n.** Crétacé Syrie, LORIOL **192** p. 238.

†*Pygaulus* sp. Kreide von Ferghana, FAAS **106** p. 12 pl. i f. 19 & 20.

†*Pygorhynchus lamberti* **sp. n.** Barrémien St.-Germain, p. 121 pl., *sucuri* p. 120, SAVIN **245**.—*P. depressus*, COTTREAU **75** p. 153 pl.—*P. jurensis*, SCHMIDT **247** pp. 96 & 135 pl.—*P. meslei*, JOURDY **155** p. 146.—*P.* cf. *royeri*, sp., SCHMIDT **247** p. 96.

†*Pyrina beyrouthensis* p. 242, *syriaca* p. 240, **spp. n.**, Crétacé Syrie, LORIOL **192**.—*P. tunisiensis*, COTTREAU **75** p. 164 pl.

†*Radiolus complanatus* maintained, holotype selected, *R. crumena* prob. syn. of *Cidaris trigona* p. 224, *lineola* **sp. n.** Raiblian and Cassian Bakony p. 230, with *major* **var. n.** p. 231 pl. and var. *minor* p. 232 pl., *penna* p. 218 pl., and *raiblianus* p. 216 pl., **spp. n.**, Raiblian Bakony, BATHER **19**.

†*Rhabdocidaris compressa*, Test a syn. of *Plagiocidaris peroni*, Radioles, LAMBERT **172** p. 10.—*R. copeoides*, KRANZ **166** p. 75.—*R. major*, CHOFFAT **42** p. 159.—*R. gaillardoti* p. 121, *lorioli* p. 120 pl. vii figs. 1 & 2, FOURTAU **114**.—*R. minichensis*, FOURTAU **116** p. 125 pl. viii figs. 1 & 2.—*R. rosaria* p. 12 pl., *R. sismondai* is a *Leiocidaris* p. 7, LAMBERT **172**.

Rhynchocidaris **gen. n.** *Cidaridae* p. 5, *triplopora* **sp. n.** p. 6 Antarktik, MORTENSEN **209**.

†*Salenia bourgeoisi*, FILLIOZAT **111**.—*S.* aff. *gibba*, TREACHER **293** p. 119.—*S. personata, petalifera, scripta, scutigera*, PILGRIM **226** p. 14.—*S.* sp., FELIX **109** p. 296.—*S. trigonata*, FILLIOZAT **111**.

†*Sardocidaris* **gen. n.** *Cidaridae*, p. 22, *piae* **sp. n.** Oligocène Sardaigne p. 23, pl. LAMBERT **172**

†*Sarsella antcroalta*, STEFANINI **267** p. 102.—*S. duncani* prob. a *Lovenia*, LAMBERT **175** p. 109.

†*Scaptodiadema*: type *matheyi* de Loriol, BATHER **19** p. 104.

†*Schizaster*, LAMBERT **172** p. 62.—*S. abductus*, HALL **133** p. 52 pl.—*S. ambulacrum*, LAMBERT **175** p. 122.—*S. angustistel'a* **sp. n.** Oligocène Sardaigne, LAMBERT **172** p. 72 pl.—*S. archiaci*, TONIOLO **286** p. 267 pl.—*S. baylei* prob. an *Opissaster* LAMBERT **175** p. 76.—*S. bellardii* p. 24, *beloutschistanensis* a syn. of *S. eurynotus* p. 21, STEFANINI **268**.—*S. caccolus*, LAMBERT **172** p. 69 pl.—*S. canaliferus*, CHECCHIA-RISPOLI **40** p. 223 pl.—*S. capeoeri* **sp. n.** Oligocène Sardaigne, LAMBERT **175** p. 74 pl., *capederi* a syn. of *eurynotus* STEFANINI **268** p. 21.—*S. decipiens* **sp. n.** Miocène Sardaigne, LAMBERT **175** p. 74 pl.—*S. descrti* **sp. n.** Eocène Egypt, FOURTAU **114** p. 150 pl. viii figs. 17–19.—*S. desori*, LAMBERT **172** p. 70.—*S. desori*, STEFANINI **268** p. 22, *eurynotus*, STEFANINI **268** p. 21 and LAMBERT **172** p. 62 & 67–69 pl.—*S. fourtaui* (Lambert) **sp. n.**, FOURTAU **116** p. 141 pl. ix figs. 6–7.—*S. gattungae* syn. of *parkinsoni*, LAMBERT **175** p. 76.—*S. gibberulus*, FOURTAU **115** pp. 189–204.—*S. greeni* **sp. n.** Eocène Egypt, FOURTAU **114** p. 153 pl. viii figs. 20–22.—*S. howa*, COTTREAU **75** p. 181 pl.—*S. humei* **sp. n.** Eocène Egypt, FOURTAU **114** p. 154 pl. viii figs. 23–25.—*S. ilottoi* **sp. n.** Miocène Sardaigne, LAMBERT **175** p. 75 pl.—*S. insolitus* **sp. n.** Eocène Egypt, FOURTAU **114** p. 156 pl. ix figs. 1–4.—*S. legraini*,

LAMBERT 175 p. 73.—*S. libycus* sp. n. Eocène Egypt, FOURTAU 114 p. 157 pl. ix figs. 5-7.—*S. melitensis* sp. n. Miocène Malta, STEFANINI 266 p. 479 pl. and 268 p. 26 pl.—*S. microstoma* sp. n. Eocène Egypt, FOURTAU 114 p. 158 pl. ix figs. 8-10.—*S. parkinsoni*, LAMBERT 172 p. 66 pls. and STEFANINI 266 p. 476-479 pl., also 268 p. 24.—*S.* cf. *postalensis*, TONIOLO 286 p. 266.—*S. sardiniensis*, LAMBERT 172 p. 71 pl.—*S. scillae*, CHECCHIA-RISPOLI 40 p. 224 pl., and *S. scil'ae* Desm. *non* Wright *nec* Gregory, LAMBERT 172 p. 63 pl.—*S. sphenoides* sp. n. ? Eocene Australia, HALL 133 p. 51 pl.—*S. trigonalis*, STEFANINI 268 p. 25 pl.

†*Schizechinus duciei*, STEFANINI 266 p. 441 pl.

†*Schizobrissus*, STEFANINI 268 p. 2.—*S. cruciatus*, p. 91 pl., *fissus* sp. n. Oligocène Sardaigne p. 93 pl. *locardi* dist. from *latus* p. 92, LAMBERT 175.—*S. saheliensis* to *Macropneustes*, STEFANINI 268 p. 2.

†*Schizopneustes* nom. nov. pro. *Dipneustes* Arnaud preocc., THIÉRY 281 p. 64.

Scutaster gen. n., *andersoni* sp. n. California Miocene, PACK 217 p. 278 pl. xxiii f. 2.

†*Scutella*, LAMBERT 172 p. 41.—*S. alberti* SHATTUCK 261 p. 79 pl.—*S. fairbanksi*, ELDRIDGE and ARNOLD 102 p. 13 pl.—*S. gibbsi*, ANDERSON 5 p. 25 & 30.—*S. lovisatoi* sp. n. Miocène Cagliari, LAMBERT 172 p. 44 pls.—*S. melitensis*, STEFANINI 266 p. 447.—*S* ? *norrisi* sp. n. California Vaqueros formation, PACK 217 p. 277 pl. xxiii f. 3.—*S. paulensis* p. 43 pl., *sardica* sp. n. [?] Miocene Sardaigne p. 44 pl. LAMBERT 172.

†*Scutel'ina* (*Porpitella*) *alexati* sp. n. Eocene Asie centrale, COTTREAU et ALEXAT 76 p. 358 pl.—*S. morgani* syn. of *patella*, *S.* aff. *patella*, HALL 134 pp. 140 & 141 fig.

†*Sismondia isidis* sp. n. Eocène Egypt p. 127 pl. vii figs. 11-14, *loghotheti* p. 126, *varians* sp. n. Eocène Minieh p. 129 pl. viii figs. 3-9 FOURTAU 116.

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†*Sphaerechinus granularis*, *scillae* sp. n. Pliocene Palermo pl., CHECCHIA-RISPOLI 40 pp. 210-212.

†*Stegaster altus*, DARESTE DE LA CHAVANNE 86 p. 667.

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†*S. lallieri* sp. n. *Cidaris subcylindrica* Cottreau pro parte, LAMBERT 174 p. 160 fig. 15-16.—*S. sceptrifera griffei* var. n. LAMBERT 174 p. 165.—*S. sceptrifera*, FELIX 109 p. 296.

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†*Temnopleurus* sp. p. [illegible], [illegible] p. 40, PILGRIM 226.

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†*Thagastea humei* **sp. n.** Eocène Egypt, FOURTAU **114** p. 125 pl. vii figs. 7–10.

†*Thylechinus libyeus* **sp. n.** Eocène Egypt, FOURTAU **114** p. 122 pl. vii figs. 3–6.

†*Tiarechinidae*; Revised diagnosis BATHER **19** p. 67.

†*Tiarechinus*; diagnosis *princeps* Neumayr is type, *T.*? sp. Cassian, BATHER **19** p. 68 fig.

†*Toxaster ricordeaui*, SAVIN **245** p. 113.—*T.* sp. Cretaceous Mexico, BURCKHARDT **33** p. 121.

Toxobrissus; syn. of *Brissopsis* s. str., LAMBERT **175** p. 94.

†*Toxopatagus*; p. 89, *T. italicus* p. 90 pl., STEFANINI **267**.

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†*Trachypatagus*; p. 118, *tuberculatus*, STEFANINI **267** p. 118, *tuberculatus* dist. from *Macropneustes peroni*, LAMBERT **175** p. 103 pl.

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†*Tripneustes parkinsoni* LAMBERT **172** p. 35 and STEFANINI **267** p. 73.

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†*Tristomastus lecointreae* **sp. n.** France, LAMBERT **176** p. 69 pl. v figs. 3–5.

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†*Eifelaster* **gen. n.** *Xenasteridae*, *follmanni* **sp. n.** Grauwacke bei Wittlich, SCHÖNDORF **255** pp. 70 & 108 pl.

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†*Metopaster teilhardi* sp. n. Santonien de Abou-Roach, DE LORIOL **191** p. 175 pl. xi f. 1.

†*Miomaster* gen. n., *drevermanni* sp. n. Devon Deutschl., SCHÖNDORF **253** p. 38

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†*Rhenaster* gen. n. *Xenasteridae, schwerdi* sp. n. Grauwacke Koblenz, SCHÖNDORF **255** pp. 65 & 108 pl.

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†*Spaniaster*; pp. 73 & 109, *S. latiscutatus* incl. *Xenaster simplex* p. 73 & 109 pls., *S.* sp., p. 77 & 109 pl., SCHÖNDORF **255**.

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†*Trimeraster* gen. n. *Xenasteridae, parvulus* sp. n. (incl. *Xenaster simplex* Follmann *non* Simonovitsch) SCHÖNDORF **255** pp. 68 & 108 pl.

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Amphiura; MCCLENDON **204** p. 43.—*A. capensis*, KOEHLER **161** p. 634.—*A. chiagei*, KOEHLER **162** p. 122.—*A. consors* sp. n. Antarctic Ocean, KOEHLER **161** p. 605 pl.—*A. diastata* sp. n. for *verrilli* preoccupied, MCCLENDON **204** supplement.—*A. magellanica* p. 607, *A. magnifica* p. 603 pls., *mortenseni* p. 604 pl., *murex* p. 633 pl., spp. n., Antarctic Ocean, KOEHLER **161**. —*A. norae* sp. n. New Zealand, BENHAM **25** p. 104 pl. figs. 1–3.—*A. squamata*, KOEHLER **161** p. 607, Lichtentwicklung, TROJAN **295** pp. 776–781.—*A. sundevalli*, KOEHLER **162** p. 122.—*A. tomentosa*, KOEHLER **161** p. 607.—*A. verrilli* sp. n. San Diego, MCCLENDON **204** p. 43 pl. ii figs. 10 & 11 vide etiam *diastata*.

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Ophioderma; p. 34, *O. panamensis* p. 35 pl. i f. 1, MCCLENDON **204**.

Ophioglypha anceps p. 591 pl., *bruce* p. 582 pl., spp. n. Antarctic Ocean, *bullata* p. 598, *figurata* p. 587 pl., *inops* p. 597 pl., *integra* p. 584 pl., *lenticularis* p. 585 pl., *mimaria* p. 590 pl., spp. n., Antarctic Ocean, KOEHLER **161**.—*O. nodosa*, KOEHLER **162** p. 122.—*O. ossiculata* p. 588 pl., *partita* p. 595 pl., spp. n., Antarctic Ocean, KOEHLER **161**. —*O. sarsi*, KOEHLER **162** p. 122.—*O. scissa* sp. n. Antarctic Ocean, KOEHLER **161** p. 59 pl.

Ophiomitrella ingrata sp. n. Antarctic Ocean, KOEHLER **161** p. 613 pl.

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†*Agaricocrinus americanus*, GRABAU **124** p. 605: *A. a.* p. 58 pl. v f. 9, *A. arcula* p. 59, *attenuata* sp. n. Tennessee Mississipic, WOOD **311** p. 61 pl. xiv figs. 3–4, *crassus* p. 60 pl. xiv figs. 5 & 6, *pondcrosus* sp. n. Tennessee Mississipic, p. 60 figs. 1 & 2, WOOD **311**.—*A. praecursor* Mississippi Valley Carboniferous, WELLER **305** p. 283 pl. xi figs. 7–12.

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Alecto milberti, tessellata, to *Amphimetra philiberti* to *Himerometra*, p. 7, *reynaudi, savignii*, to *Heterometra*, p. 11, *articulata, elongata, flagellata*, to *Dichrometra*, p. 13, CLARK **47**.

†*Allagecrinus americanus*, ROWLEY **241** p. 67 pl.

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Antedon; reclassified, with synonymy and structural data, CLARK **47**.—*A. omissa* sp. n., KOEHLER **160** p. 268 pl. xxxii f. 10.

Antedoninae subfam. n., including *Antedon, Mastigometra, Compsometra, Iridometra*, CLARK **61** p. 176.

†*Apiocrinus* sp., FUCINI **120** p. 98.—*A.* sp., TROESCH **294** p. 71.

Asterometra mirifica, acerba, spp. n. Sahul Bank 10° 30′ S. lat., 125° E. long., p. 147, CLARK **57**.

†*Balanocrinus*: type *subteres*, BATHER **18** p. 38.—*B. laevigatus* from *Pentacrinus*, BATHER **19** p. 23.—*B.* aff. *pentagonalis*, KORONIEWICZ **165** p. 211.—*B. radiatus* from *Encrinus*, BATHER **19** p. 16.—*B.* sp., CHOFFAT **42** p. 162.—*B.* "sp. nov.," KRAUSE **167** p. 298.—*B. subbasaliformis*, BATHER **17** p. 209.—*B. subcrenatus* from *Pentacrinus*, BATHER **19** p. 23.—*B. subteres*, BATHER **18** p. 38 and SACCO **243** p. 66.

Balanometra gen. n. (?), type *Antedon balanoides* P. H. C. 1888, CLARK **61** p. 177.

†*Barycrinus exprinsus* Tennessee Mississippic, WOOD **311** p. 86.—*B. granulatus* sp. n. Warsaw beds Kentucky, ROWLEY in GREENE **125** p. 30 pl.—*B. hoveyi* p. 85, *pentasphericus* (Troost) sp. n. Tennessee Mississippic p. 84 pl. v figs. 7 & 8, WOOD **311**.—*B.* sp. Mississippi Valley Carboniferous, WELLER **305** p. 279 pl. xi f. 22.—*B. stellatus* Tennessee Mississippic, WOOD **311** p. 84 pl. viii fig. 6–8.

Bathycrinus: included in *Rhizocrinus*, CLARK **45** p. 204.—*B. paradoxus* sp. n. Bay of Bengal 1,300 fms., CLARK **57** p. 150.—*B. woodmasoni* sp. n. 6° 18′ lat. 90° 40′ E. long. 1,529 fms., CLARK **57** p. 150.

Bathymetrinae subfam. n., including *Bathymetra, Thaumatometra*, CLARK **61** p. 177.

†*Batocrinus curiosus* sp. n. Louisiana, ROWLEY **241** p. 98 pl.—*B. davisi*, ROWLEY in GREENE **125** p. 29 pls.—*B. gibbosus* (Troost) sp. n. Tennessee Mississippic p. 64 pl. xv f. 9, *grandis* Lyon, p. 63 pl. xv f. 11, *sayi* (Troost) sp. n. Tennessee Mississippic p. 65 pl. xiii figs. 7 & 8, WOOD **311**.

†*Beyrichocrinus humilis*, SEEMANN **259** p. 112.

†*Bourgueticrinus*, ELSDEN **103** p. 451 and HOLST and GRÖNWALL **143** p. 9 12 19 23 & 24.—*B.*, derived flint cast with internal structures, CHANDLER & LEACH **35** p. 123.—*B. ellipticus*, FILLIOZAT **111** and LERICHE **187** p. 339.

†*Cactocrinus nodobrachiatus*, ROWLEY in GREENE **125** p. 31 pl.

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Capillaster gen. n. type *Actinometra sentosa* P. H. C. 1888, CLARK **49** p. 87.—*C.*, synonymy and range, CLARK **58** p. 503.

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Cenometra gen. n. (*Cyllometra*), list of spp., Clark 47 p. 8.—*C. delicata* sp. n. Rakiputan Strait 18–23 fms. p. 398, *unicornis* off Simo Bank 16 fms. p. 399, Clark 55.—*C. herdmani* Bay of Bengal 12 fms. p. 145, *insucta* Burma p. 146, spp. n., Clark 57.

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†*Cleiocrinus tessellatus* (Troost) sp. n. Tennessee Stones River, Wood 311 p. 100 pl. vii f. 11.

†*Coccocrinus bacca* Roemer pl. iv. f. 9, *conicus* (Troost) sp. n. Tennessee Niagaran, Wood 311 p. 29 pl. xv. f. 1.

†*Cocliocrinus cariniferus* (Worthen) Tennessee Mississippie, Wood 311 p. 91.—*C.* sp. Mississippi Valley Carboniferous, Weller 305 p. 280 pl. xi f. 27.

Colobometra gen. n. (*Cyllometra*), list of spp., Clark 47 p. 5.—*C. discolor* sp. n. 14° 04′ 30″ N. lat., 93° 51′ 00″ E. long. 41 fms., Clark 59 p. 640.—*C. vepretum* sp. n., Clark 66 p. 174.

Comactinia gen. n. type *Alecto echinoptera* Müller 1841, Clark 58 p. 498.

Comactiniinae subfam. n., including *Comatula*, *Comactinia*, *Cominia*, Clark 61 p. 175.

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Comanthus; synonymy and range, Clark 58 p. 506, *C. nobilis* p. 395, *briareus*, *polycnemis* sp. n. Rakiputan Strait, 23 fms., p. 396, *duplex*, *rotularia*, *alternans*, p. 397, Clark 55.—*C. pinguis* Sagami Bay, Japan p. 29, *samoana* Samoa p. 30, spp. n., Clark 54.

Comaster; type *Comatula multiradiata* Lam. not *A. m.* Linn. = *Alecto multifida* J. Müller, Clark 49 p. 87.—*C.* synonymy and range, Clark 58 p. 506.—*C. iowensis*, *lineata*, ambulacral plating, Clark 53 p. 362.—*C. novaeguineae* syzygy, Clark 61 p. 173.—*C. parvus* sp. n. Andaman Is. 53 fms., Clark 57 p. 144.—*C. sentosa*, *multiradiata*, Rakiputan Strait p. 391, Clark 55.

Comasteridae; history, ambulacral plates, key to genera, Clark 58 pp. 494–496.

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Comatulida Innatantes suborder n. including *Marsupitidae*, *Uintacrinidae*, Oligophreata n. suborder, including *Comasteridae*, *Zygometridae*, *Himerometridae*, *Colobometridae*, *Thalassometridae*, *Tropiometridae*, Clark 61 p. 174.

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Cominia gen. n. type *Comanthus decameros* A. H. Clark 1908, Clark 58 p. 497.

Comissia gen. n., *lütkeni* sp. n. off Tawi Tawi Philippines 49 fms., Clark 58 p. 501.

†*Corona antiqua*, Seemann 259 p. 113.

Cosmiometra gen. n. (*Parametra*), list of spp., CLARK 47 p. 16.

Craspedometra gen. n. (*Himerometra*), list of spp., CLARK 47 p. 8.—*C. alicua* sp. n. Tataan group Philippines 18 fms., CLARK 54 pp. 31–32.

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Crotalometra gen. n. (*Thalassometra*) p. 403, *cupedata* sp. n. off east coast of Mindanao, p. 404, CLARK 55.—*C. annandalei* sp. n., Malay Archipelago, CLARK 59 p. 642.—*C. rustica* sp. n., Malay Archipelago, CLARK 56 p. 80.—*C. scutifera* sp. n. 10° 47′ 45″ N. lat., 72° 40′ 20″ E. long., CLARK 57 p. 147.

†*Cyathocrinus brittsi* Miller & Gurley Tennessee Niagaran ?, p. 81 pl. xv figs. 2 & 3, *globosus* (Troost) sp. n. Tennessee Niagaran ? p. 82 pl. v figs. 17 & 18, WOOD 311.—*C. goliathus* pp. 469, 471 & 473, *indicus* p. 469, KOKEN 164.—*C.* ? *municipalis* (Troost) sp. n. Tennessee Mississipic, WOOD 311 p. 82 pl. xi f. 5.—*C. somersi*, STEVENSON 272 p. 165.—*C.* sp. Nismes, MAILLIEUX 199 p. 226.—*C. stellatus*, GRABAU 124 p. 605.—*C. virgalensis*, KOKEN 164 pp. 469 & 473.

Cyllometra; restricted, list of spp., CLARK 47 p. 6.—*C. informis*, Philippines, CLARK 51 p. 88.—*Cyllometra manca*, off Tawi Tawi & off Masbate, CLARK 55 p. 399.—*Cyllometra mollis* sp. n., Kurrachi ?, CLARK 56 p. 76.—*C. soluta* sp. n. Straits of Ormuz, CLARK 57 p. 146.—*C. suavis* to *Colobometra*: *albopurpurea* & *anomala* to *Cyllometra*, CLARK 47 p. 6.—*C. taprobanes* sp. n. off Colombo, CLARK 59 p. 641.

†*Dadocrinus*: p. 18., *D.*? sp. p. 19 fig. BATHER 19.

Decametrocrinus: calyx structure, CLARK 53 p. 363.

†*Delocrinus excavatus* Texas Permian, p. 628 pl. i figs. 16–17, *major* pl. i figs. 6 & 7, *texanus* figs. 12 & 13, spp. n., Texas Permian, WELLER 306 pp. 627 & 628.

†*Dendrocrinus polydactylus* (Shumard), Ohio and Indiana, WOOD 311 p. 83.

†*Diabolocrinus vesperalis* (White) Tennessee Trenton WOOD 311 p. 104.

Dichrometra gen. n. (*Stephanometra*), list of spp., CLARK 47 p. 12.—*D. aranea* sp. n. 8° 51′ 30″ N. lat., 81° 11′ 52″ E. long., CLARK 56 p. 76.

†*Dimerocrinus roemeri* (Troost) sp. n. Tennessee Niagaran, WOOD 311 p. 101 pl. xv f. 4.

†*Dizygocrinus parvus* sp. n. Warsaw beds Georgetown, ROWLEY in GREENE 125 p. 39 pl.—*D. saculus* (Miller & Gurley) Tennessee and Indiana Mississippic, p. 72 pl. v fig. 1–6, *uniomensis* (Worthen), p. 73, *uniomensis divalis* (Müller) p. 74 pl. v fig. 16, WOOD 311.

†*Dolatocrinus bulbaceous* p. 9 pl., *fossatus* sp. n. Devonian falls of Ohio p. 7 pl., ROWLEY in GREENE 125.—*D. grandis* Miller and Gurley Ohio River, WOOD 311 p. 56 pl. xii f. 2.—*D. insectus* sp. n. Helderberg falls of Ohio, ROWLEY in GREENE 125 p. 8 pl.

†*Ectenocrinus canadensis* (Billings) Kentucky Trenton, WOOD 311 p. 22 pl. iv f. 10.

†*Encrinites*: fragments ? Persian Gulf, PILGRIM 226 p. 92.—*E. incplicatus* SEEMANN 259 p. 113.

†*Encrinus*: type is *liliiformis*, BATHER 18 p. 39; history of the genus, BATHER 19 p. 7.—*E.* discussed, ascribed to Blumenbach, incl. *Encrinus* s. str. and *Isocrinus* as subgenera, *Lis asterias* is type, CLARK 48 p. 308.—*E.* Schulze 1760 valid, SPRINGER 264 p. 183.—*E.*, SCALIA 246.—*E. asteria*, CLARK 48 p. 308.—*E. cancellistriatus* sp. n. Cassian, BATHER 19 p. 13 fig.—*E. capitmedusae*, CLARK 48 p. 308.—*E. cassianus*, BATHER 19 p. 9 figs.—*E. coralloides*, BATHER 18 p. 39.—*E. granulosus*, BATHER 19 p. 11 fig., and *E.* (*Entrochus*) *granulosus*, PRINCIPI 229 pp. 166 & 201.—*E. liliiformis*, BATHER 18 p. 39 and CLARK 48 p. 308.—*E. radiatus* to *Balanocrinus*, BATHER 19 pp. 16 & 256, *E.* spp., BATHER 19 p. 14 figs.

Endoxocrinus alternicirrus off east coast of Mindanao, CLARK 55 p. 409.

†*Entrochus betula*, *pommus*, *laphaus*, *nodulosus*, SEEMANN 259 p. 113.—*E. quinquecadiatus* sp. n. Cassian beds, BATHER 19 p. 19 figs.—*E. cobestomus*, SEEMANN 259 p. 113.—*E. albertinus*, p. 14 figs., *E.* spp., p. 17 figs., BATHER 19.—*E. turgidus*, SEEMANN 259 p. 113.

†*Eretmocrinus praegravis* Tennessee Mississippic, p. 66, *ramulosus* p. 68, *spinosus*, Tennessee Mississippic, pp. 67–68 pl. xi fig. 1–2, Wood **311**.

†*Erisocrinus* (?) *bipartitus* (Troost) **sp. n.** Tennessee Niagaran, Wood **311** p. 98 pl. vi figs. 8 & 9.—*E. propinquus* **sp. n.** Texas Permian, Weller **306** p. 629 pl. i figs. 14–15.—*E.* sp., Stevenson **272** p. 165.—*E. trinodus* **sp. n.** Texas Permian, Weller **306** p. 630 pl. i figs. 10 & 11.

†*Eucalyptocrinus extensus* (Troost) p. 49 pl. xiii figs. 9 & 10, *gibbosus* p. 54 pl. x figs. 3 & 4, *goldfussi* p. 52 pl. xv figs. 5 & 6, **spp. n.**, Tennessee Niagaran, *lindahli* Waehsmuth & Springer, Tennessee, Niagaran, p. 47 pl. xii figs. 5 & 6, *milligani* Miller & Gurley, p. 50 pl. v f. 13, *nashvillae* (Troost) **sp. n.** Tennessee Niagaran, p. 53 pl. xv figs. 7 & 8, *ovalis* Hall, p. 48 pl. ii f. 3, *phillipsi* (Troost) **sp. n.** Tennessee Niagaran p. 51 pl. x figs. 9 & 10 & pl. xiii figs. 2–4, *ventricosus* Wathsmuth & Springer p. 54, Wood **311**.

Eudiocrinus minor **sp. n.** Andamans, Clark **56** p. 75.—*E. ornatus* **sp. n.** 14° 04′ 30″ N. lat. 93° 51′ 00″ E. long. Clark **59** p. 633.

Eumetra indica **sp. n.** Andamans. Clark **56** p. 84.

†*Eupachycrinus boydii* Tennessee, Mississippic, Wood **311** p. 95 pl. vii figs. 1–5.—*E. maniformis* Tennessee Mississippic, Wood **311** p. 94 pl. xi f. 4.—*E. mooresi*, Stevenson **272** p. 165.

†*Forbesiocrinus greeni*, type of *Proguettardicrinus*, Steinmann **270** p. 153.—*F. meeki, saffordi*, Grabau **124** p. 605.

†*Glyptocrinus*, Delgado **91** p. 140.—*G. basalis*, Groom & Lake **123** pp. 572 & 577.—*G. decadactylus*, Rowley in Greene **123** p. 28 pl.—*G.* ? sp., Clarke **72** p. 72.

Glyptometra **gen. n.** (*Pachylometra*), list of spp., Clark **47** p. 18.—*G. tuberosa* off east coast of Mindanao, Clark **55** p. 407.

†*Graphiocrinus sampsoni* **sp. n.** Mississippi Valley Carboniferous, Weller **305** p. 280 pl. xi f. 23.

†*Haplocrinus granulatus* (Troost) **sp. n.**, Tennessee Niagaran, Wood **311** p. 25 pl. iv figs. 4 & 5.—*H. hemisphericus*, Grabau **124** p. 603.—*H. maximus* p. 26 pl. iv figs. 6–8, *ovalis* (Troost) **spp. n.**, Tennessee Niagaran, p. 25 pl. iv fig. 3, Wood **311**.—*H. stellaris* Mitteldevon von Polen (Russ.), Sobolew **262** p. 512 pl. v f. 8.

Heliometrinae subfam. n., including *Promachocrinus, Heliometra, Trichometra, Hathrometra, Isometra*, Clark **61** p. 176.

Heterocrinus; Delgado **91** p. 140.

Heterometra **gen. n.** (*Craspedometra*), list of spp., Clark **47** p. 11.—*H. aspera* **sp. n.**, Clark **66** p. 162.—*Heterometra compta*, Pedro Shoal, *singularis* southern portion of Malacca Strait, **spp. n.**, Clark **59** pp. 636–639.

Himerometra; list of spp., restricted. *H. ensiformis* (sic. = *ensifer*), *molleri, producta* & *schegelii* to *Amphimetra, bartschi, magnipinna, persica, robustipinna* to *Himerometra* as restricted, p. 7, *unicornis* to *Cenometra* p. 8, *acuta* & *echinus* to *Stephanometra* p. 10, *gracilipes, grandis, heliaster* & *subcarinata* to *Dichometra* p. 13, Clark **47**.—*H. pædophora* **sp. n.** N. S. Wales, Clark **70** p. 524 fig.

Himerometrinae subfam. n. including *Amphimetra, Himerometra, Craspedometra* & *Heterometra*, Clark **61** p. 175.

†*Holocrinus*: *H.* sp., Bather fig., *wagneri*, Bather **19** p. 21.

†*Homocrinus* ? sp., Clark **72** p. 72.—*H.* sp. n. Herdorfer Schichten Siegerlandes, Schmidt **249** p. 448.

†*Hydreionocrinus depressus* Tennessee ? Mississippic, Wood **311** p. 92 pl. xi figs. 6–8.—*H. mucrospinus*, Stevenson **272** p. 165.—*H. spinosus* **nom. n.** Kentucky Mississippic, Wood **311** p. 93.—*H. uddeni* **sp. n.** Texas Permian Weller **306** p. 624 pl. i figs. 1–5.

Hypalocrinus liliaceus **sp. n.** 16° 25′ 00″ N. lat. & 93° 43′ 00″ E. long., Clark **57** p. 150.—*H. naresianus* off east coast of Mindanao, 494 fms., underbasals, etc., Clark **55** p. 409 fig.—*H. springeri* 13° 47′ 49″ N. lat. & 73° 07′ 00″ E. long., p. 650, *ornatus* Andaman Sea p. 651, **spp. n.**, Clark **59**.

†*Ichthiocrinus tiaraeformis*, Grabau **124** p. 605.—*I.* ? *bohemicus*, Seemann **259** p. 112.—*I. tiaræformis* Tennessee Mississippic, Wood **311** p. 99 pl. vii figs. 15–17.

Triadometra exquisita sp. n. north of Tablas I., CLARK 55 p. 108.

†*Isocrinus*; ascribed to von Meyer, *pendulus* type, BATHER 18 p. 37; ascribed to L. Agassiz, regarded as subgenus of *Encrinus*, type *pendulus*, CLARK 48 p. 308.—*I.*, Triassic spp. of *Pentacrinus* referred to, *amoenus*, *bavaricus*, BATHER 19 p. 30.—*I. blakei*, CLARK 48 p. 308.—†*I. braunii* p. 30, *candelabrum* sp. n. Cassian and Raiblian Bakony p. 38 figs., BATHER 19.—*I. decorus*, CLARK 45 p. 203 and 48 p. 308.—†*I. fuchsii* p. 30, *hercuniae* sp. n. Raiblian Bakony p. 48 figs., BATHER 19.—*I. knighti* sp. n. Wyoming Jurassic, SPRINGER 264 p. 180 pl. iv figs. 1–13.—*I. maclearanus*, CLARK 45 p. 204.—†*I. pendulus*, BATHER 18 p. 37 and CLARK 48 p. 308.—*I. propinquus* p. 30, *sceptrum* p. 45 figs., *scipio*, p. 43 figs., spp. n. Cassian beds Bakony, BATHER 19 *I.* spp., p. 55 etc., figs., *tyrolensis* p. 30 with α, β & γ varr. n. Raiblian p. 36 figs., *tyrolensis major* subsp. n. p. 37 figs., BATHER 19.

†*Lampterocrinus tennesseensis* Tennessee Niagaran, WOOD 311 p. 103 pl. vii figs. 8–10.

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VI. VERMIDEA

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H. M. WOODCOCK.

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VII. BRACHIOPODA AND BRYOZOA

ARRANGED BY

F. W. EDWARDS.

(a) BRACHIOPODA

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†*Hemitrypa inversa* sp. n. Upper Burmah Devonian, REED Pal. Ind. 2 No. 5 p. 59.

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H. B. PRESTON.

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Abbreviations employed in Sections II and III:—

deser. = described.
exp. / expdn. = expedition.
occ. = occurrence.

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†*Architectonica blanda* sp. n. Oregon Eocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 80 figs.—*A. africana, kossmati*, spp. n., Zululand Cretaceous, NEWTON Trans. R. Soc. South Africa 1 pp. 22–25 figs.

†*Arctoscala* subg. n. vide *Epitonium*.

†*Argobuccinum* (*Fusitriton*) *cammani, coosense*, spp. n., Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 pp. 55–56 fig.

Argyropeza melvilli sp. n. Malay Archipelago, SCHEPMAN Rés. Exp. Siboga Livr. 43 Mon. 49[1]b p. 170 fig.

†*Astraea* (*Pachypoma*) *precursor* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 93 figs.

Assiminea gravieri, sp. n. Madagascar, LAMY Bul. Mus. Paris 1909 p. 370.

†*Ataphrus chartsoni, deflexus*, spp. n., COSSMANN Havre Bul. soc. géol. 27 1907 (1908) pp. 62–63 figs.

Baikalia angarensis Gerstf. descr. *bythiniopsis, herderiana, variesculpta, pusilla*, pp. 45–50 figs., *B.* (*Baikaliella* subg. n. p. 44), *nana* p. 44 figs., *B.* (*Godlewskia*) *angigyra, korotnevi*, pp. 64–66 figs., *duthiersi* (Dyb.), *ciliata* (Dyb.), *costata* (Dyb.), *turriformis* (Dyb.), descr. pp. 63–64, *B.* (*Gerstfeldtia*) *columella* pp. 67–68 figs., *B.* (*Parabaikalia*) *kobeltiana, mibischevistchi, semenkevitschi* pp. 51–52 & 54 figs., *B.* (*Pseudobaikalia*) Beschreibung, *pulla* (Dyb.) descr. p. 56, *jentteriana, subcylindrica, pulla* (Dyb.) var. *ventrosula, elegantula, tenuicosta, cancellata*, pp. 55–59 figs., *B.* (*Teretobaikalia*) *macrostoma* pp. 43–44 figs., *B.* (*Trachybaikalia*) *carinata* (Dyb.) pp. 69–70, *carinato-costata* (Dyb.) descr. pp. 69–71 figs., *dybowskiana* pp. 71–72 figs., spp. n. and varr. n., Lake Baikal, LINDHOLM Zool. Exped. Baikal-See Lfg. 4.

Baikaliella subgen. n. vide *Baikalia*.

†*Bathytoma gabbiana* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 28 fig.

†*Batillaria blanguieri* p. 157 fig. 1, *fauvergli* p. 159 fig. 2, *bressoni* p. 161 fig. 3, *roussili* p. 162 pl. 13 fig. 16, *praesubacuta* p. 163 fig. 17, *courzensis* p. 164 pl. 9 fig. 4, *sub-biseralis* p. 166 pl. 9 fig. 5, *sub-echinoides* p. 168 pl. 9 fig. 6, spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.

Bela anderssoni, fulvicans, pelseneri, notophila, antarctica, purissima, turrita, spp. n., Antarktik oder Süd Georgien, STREBEL Schwed. Südpolar-Exp. 6 1 pp. 14–18 figs.

Benedictiidae Sec Grp. n., Lake Baikal, LINDHOLM Zool. Exped. Baikal-See Lfg. 4 p. 30.

†*Benoistia pentagonata* p. 122 pl. 7 fig. 5, *elongata* p. 123 fig. 6, spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.

Bethynia tentaculata, fasciata, var. n. Deutschland, HILBERT Konigsberg Schr. physik. Ges. 49 p. 401. Vide etiam *Bythinia*.

Bittium seymourianum, astrolabiensis Antarktis, *bisculptum* spp. n. Süd Georgien, STREBEL Schwed. Südpolar-Exp. 6 1 pp. 47–49 figs.

†*B. nodosocostatum* p. 171 pl. 9 fig. 7, *quadricinctum* fig. 8, *baicherei* fig. 9 p. 172, spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.

†*Bormetella* nom. n. pro *Bormetia* Cossmann 1907, praeocc., COSSMANN Rev. crit. paléozool. Paris 12 1908 p. 68.

†*Brachytrema strambergensis* sp. n. Stramberg, REMEŠ Wien Beitr. Pal. Geol. Oest Ung. 22 p. 181.

Bythinia contortrix sp. n. Baikal See, LINDHOLM Zool. Exped. Baikal-See Lfg. 4 p. 30 figs.—*B. tentaculata* var. *borysthenica* var. n. Schwarzen Meer, MILASCEWICZ St. Petersburg Ann. Mus. 14 p. 148.—Vide etiam *Bithynia*.

Caecum clarum (de Folin MSS.) sp. n. Madagascar, LAMY Bul. Mus. Paris 1909 p. 369.

Calliostoma nordenskjoldi, anderssoni, spp. n. North Argentina, pp. 66–68 figs., *venustulum, falklandicum, modestulum*, Falkland Islands, spp. n., pp. 68–71 figs., STREBEL Schwed. Südpolar-Exp. 6 1.

†*C. cammani* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 96 figs.—*C. daubenyi, elymum, gymnospira*, spp. n. Sicily Jurassic, GEMMELLARO Palermo Giorn. sc. nat. econ. 27 pp. 244 & 245 figs.—*C. teguliforme* sp. n. Vendée, COSSMANN

Havre Bull. soc. géol. 27 1907 (1908) p. 61 figs.—*C. custugense* sp. n., DONCIEUX Ann. Univ. Lyon 22 1908 p. 245 pl. 13 fig. 13.

Callostracuna nom. n. (*Smithia* Maltzan), SMITH Ann. Mag. Nat. Hist. 4 p. 229.

†*Cancellaria dariena* sp. n. Panama Jungtertiär, TOULA Wien. Jahrb. Geol. RchsAnst. 58 p. 703.—*C. oregonensis* Oregon Miocene, *arnoldi*, *hemphilli*, California, Pliocene, spp. n., DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 pp. 28–30 figs.

Capulus calcareus sp. n. New Zealand, SUTER Rec. Canterbury Mus. 1 p. 122 fig.

†*C.* ? *simplex*, *ceratopygarum*, spp. n., Scandinavia Cambrian, MOBERG & SEGERBERG Lund Univ. Arosskr. 2 No. 7 (1906) p. 73 figs.—*C.* (?) *gatunensis* sp. n. Panama Jungtertiär, TOULA Wien Jahrb. Geol. RchsAnst. 58 p. 692.

Cassis saburon, *costulata* and *nigra* varr. n., ARGÜELLES Zaragoza Bol. Soc. Arag. 8 pp. 41–44.

†*Cataschisma* gen. n. (*Pleurotomariidae*) *typa* sp. n. Missouri Ordovician, BRANSON St. Louis Trans. Acad. 18 pp. 43–44 figs.

†*Catenoscala* subg. n. vide *Epitonium*.

Cerithidium striatum nom. n. für *C. pusillum* des Schwarzen Meeres, MILASZEVICZ St. Peterburg Ann. mus. 14 p. 314.

Cerithiopsis stephensi sp. n. Alaska, BARTSCH Washington U. S. Nation. Mus. Proc. 37 No. 1711 pp. 399–400 fig. —*C. pinea*, *telegraphica*, *tribulationis*, *westiana*, spp. n. Hope Is., HEDLEY Sydney Proc. Linn. Soc. 34 pp. 440–442 figs.—*C. malvinarum* sp. n. Falkland Inseln, STREBEL Schwed. Südpolar-Exp. 6 1 p. 49 figs.—*C. blandi* (Deshayes MSS.) sp. n. Madagascar, LAMY Bul. Mus. Paris 1909 p. 368.—*C.* (*Seila*) *versluysi* sp. n. Malay Archipelago, SCHEPMAN Rés. Exp. Siboga Livr. 43 Mon. 49 b p. 169 fig.

†*C. excelsus* sp. n. Oregon Eocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 75 fig.—*C. angustus* sp. n., DONCIEUX Ann Univ. Lyon 22 1908 p. 174 pl. 9 fig. 12.

Cerithium ponticum var. n. *oraria* Schwarzes Meer, MILASZEVICZ St. Peterburg Ann. mus. zool. 14 p. 313 fig.—*C. tydemani*, sp. n. Malay Archipelago, SCHEPMAN Rés. Exp. Siboga Livr. 43 Mon. 49 b pp. 163–164 fig.

†*C. saccoi* nom. n. pro *C. miqueli* Doncieux praeocc., STAADT Rev. crit. paléozool. Paris 13 p. 68.—*C. cornuti* nom. n. pro *C. rutoti* Cossmann 1908 praeocc., VIGUAL Rev. crit. paléozool. Paris 11 1907 p. 268.—*C. uhligi*, *strambergense*, spp. n., Stramberg, REMEŠ Wien Beitr. Pal. Geol. OestUng. 22 pp. 183–184.—*C. deprati*, *lethe*, *basiplanum*, *jablani*, p. 341 & 342 figs.—*C.* (*Gourmya*) *manfredi* p. 341 figs.—*C.* (*Batillaria*) *satrapes*, pp. 338–339 figs., *C.* (*Vertagus*) *rudloffi*, p. 339 fig., *C.* (*Pyrazus*) *arapovicense*, spp. n., pp. 337–338 figs., Ostbosnien, OPPENHEIM Wien Jahrb. Geol. RchsAnst. 58.—*C.* (*Tiaracerithium*) *miqueli* p. 105 pl. 6 fig. 1, *noguesi* p. 106 fig. 2, *tricinctum* p. 112 fig. 8, *tourouzellense* p. 113 fig. 9, (*Ptychocerithium*) *tournissancense* p. 115 fig. 10, *deperati* p. 116 pl. 7 fig. 1, spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.—*C. ickei* nom. n. pro *bitigeri* Icke & Martin praeocc., VIGNAL Rev. crit. paléozool. Paris 12 p. 136.—*C. curacense*, *hangi*, *politum*, spp. n., Sicily Jurassic, GEMMELLARO Palermo Giorn. sc. nat. econ. 27 pp. 256–257 figs.

†*Chlamydina* nom. n. pro *Myochlamys* Ihering 1907, COSSMANN Rev. crit. paléozool. Paris 13 p. 67.

†*Chrysodomus imperialis*, *bairdii*, Oregon and California Miocene, *postplanatus* Washington Miocene, spp. n., DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 pp. 42–44 figs.

†*Cimoliocentrum* nom. n. pro *Centrogonia* Cossm. 1900, COSSMANN Rev. crit paléozool. Paris 12 1908 p. 68.

Clinculus mauritianus sp. n. Mauritius, MELVILL London Trans. Lin. Soc. 13 p. 79 fig.

Clathurella letourneuxiana var. *cuspis*, sp. n. South Australia, VERCO Adelaide S. Aust. Proc. R. Soc. 33 p. 309.

†*Clavilithes carinatus* p. 62 pl. 3 fig. 9, *longispira* p. 64 fig. 11, *concavus* p. 66 pl. 4 fig. 1, spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.

Cleopatra pontrini **sp. n.** Central Africa, GERMAIN Bul. Mus. Paris **1909** p. 377.

Coeculinella **gen. n.** für *Acmaea minutissima* Edg. Smith, THIELE Conchylienkabinet Bd. 2 Abt. 11a p. 21.

†*Coelostylina distefanoi*, *Cylostylina* (?) *schopeni*, **spp. n.** Sicily Jurassic, GEMMELLARO Palermo Giorn. sc. nat. econ. **27** p. 249 figs.

†*Collonia* (*Cirsochilus*) *funiculosa* **sp. n.** DONCIEUX Ann. Univ. Lyon **22** 1908 p. 421 pl. 13 fig. 8.

Cominella torri **sp. n.** South Australia, VERCO Proc. R. Soc. S. Aust. **33** p. 271 figs.

†*C. wilckensi*, *carminis*, **nomm. n.** Magellaniar, IHERING An. Mus. Nac. Buenos Aires **12** p. 32.

†*Conomitra antigua* **sp. n.**, DONCIEUX Ann. Univ. Lyon **22** 1908 p. 61 pl. 3 fig. **8.**

Coralliophila neritoidea Artberechtigung und Varietäten, OBERWIMMER Wien Denkschr. Ak. Wiss. **84** p. 520.

Couthouyella **gen. n.** (*Eulimidae*), type *Pyramis striatula* Couthouy, BARTSCH Boston Proc. Soc. Nat. Hist. **34** pp. 109–110.

Cryptospira (*Closiu*) *profunda* **sp. n.** New Zealand, SUTER Rec. Canterbury Mus. **1** p. 128 fig.

Cyclostrema crassicostatum **sp. n.** Feuerland, STREBEL Schwed. Südpolar-Exp. **6** 1 p. 76 figs.— *C. anxium*, *torridum* **spp. n.** Hope Is., HEDLEY Sydney Proc. Linn. Soc. **34** pp. 437–438 figs.—*C. gravieri*, **sp. n.** Madagascar, LAMY Bul. Mus. Paris **1909** p. 370.—*C.* (*Daronia*) *jaffaensis* **sp. n.** South Australia, VERCO Proc. R. Soc. S. Aust. **33** p. 270 figs.

†*Cymatium* (*Linatella*) *pacificum* **sp. n.** Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** p. 57 fig.

Cypraea arabica prasina New Caledonia, *helvola cultista*, *moneta aurea*, Tahiti, **varr. n.** pp. 311 & 312, *prestoni* for *interrupta* Gray, *hidalgoi* for *leucostoma* Gask, *gambiensis* for *nebulosa* Kien, *fuscorubra* for *simulis* Gray, **nomm. n.**, pp. 299 300 302, *arabica*, *prasina* **var. n.** Sandwich Islands and Labuan, p. 312, SHAW London Proc. Malac. Soc. **8.**

Daphnella fenestrata, *stiphra*, *perplexa*, *triseriata*, *bathentoma*, **spp. n.**, South Australia, VERCO Proc. R. Soc. S. Aust. **33** pp. 321–326 figs.

†*Diastoma crassicostatum* **sp. n.**, DONCIEUX Ann. Univ. Lyon **22** 1908 p. 182 pl. 10 fig. 7.

†*Dicroloma magellanica* **nom. n.**, IHERING An. Mus. Nac. Buenos Aires **12** p. 30.

†*Dillwynella corbarica* **sp. n.**, DONCIEUX Ann. Univ. Lyon **22** 1908 p. 243 pl. 13 fig. 11.

†*Diptychochilus*, **gen. n.** *pradellensis*, **sp. n.**, pl. 7 fig. 18, DONCIEUX Ann. Univ. Lyon **22** 1908 p. 137.

†*Distorsio* (*Distortrix*) *gatunensis* **sp. n.** Panama Jungtertiär, TOULA Wien Jahrb. Geol. ReichsAnst. **58** p. 700.

†*Ditremaria strambergensis* **sp. n.** Stramberg, REMEŠ Wien Beitr. Pal. Geol. OestUng. **22** p. 189.

Drillia (*Crassispira*) *lavis parva* **subsp. n.** Snares Isds., SUTER Subant. Isl. New Zealand **1909** p. 30.—(?) *Drilia costicapitata*, *Drillia jaffaensis*, *achatina*, *agrestis*, *subplicata*, *woodsi* var. *acostata*, *hedleyi*, *triphonoides*, *lacteola* and varr. *crebrespirata* and *sinusegens*, *dilecta* var. *parabola*, **spp.** and **varr. n.** South Australia, VERCO Proc. R. Soc. S. Aust. **33** pp 296–306 figs.

†*Drillia collaborata* **nom. n.** pro *monterosatoi* Cossm. et Piss., STAADT Rev. crit. paléozool. Paris **12** p. 220.

Drupa bollousi SUTER London Proc. Malac. Soc. **8** pl. xi figs. 5–7,

Eatoniella subgonostoma **sp. n.** Süd Georgien, STREBEL Schwed. Südpolar-Exp. **6** 1 p. 59 figs.

†*Eccoliomphalus fredericus* sp. n. New York Ordovician, RAYMOND Bull. Amer. Pal. No. **14** 1902 p. 39 Vol. **3** 1902 p. 305.

Eglisia elegans **sp. n.** Saya de Malha Banks, MELVILL London Trans. Lin. Soc. **13** p. 84 fig.

Elusa subcarnea, *dubia*, **spp. n.**, SCHEFMAN Résult. Expl. Siboga Monogr. **49** c Livr. 46 p. 243.

[*Engina*] *Gorgina purpureo-cincta* **sp. n.** Ceylon, PRESTON Rec. Ind. Mus. **3** p. 136.

Epitonium koskinum sp. n. Hope Is., HEDLEY Sydney Proc. Linn. Soc. **34** p. 443 figs.

†*E.* (*Opalia*) *rugiferum* Oregon Pliocene, *E.* (*Arctoscala* subgen. n. type *Scalaria greenlandica* Perry), *condoni* Oregon Miocene, *E.* (*Catenoscala* subgen. n. p. 53) *oregonense* Oregon Miocene, spp. n., DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** pp. 52–54 figs.

Euchelus providentiae sp. n. Providence Isd., MELVILL London Trans. Lin. Soc. **13** p. 78 fig.

†*Eucyclotropis* nom. n. for *Cyclotropis* Perner, COSSMANN Rev. crit. paléozool. Paris **13** p. 67.

†*Eucyclus polytaeniatus* sp. n. Vendée, COSSMANN Havre Bull. soc. geol. **27** 1907 (1908) pp. 57–58 figs.

†*Eudolium oregonense* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** pp. 71–72 fig.

Eulima interrupta A. Adams 1884 = *secunda* nom. n. BUSH Amer. J. Sci. **27** p. 481.—*E. aucklandia* sp. n. Auckland Islands, SUTER Subantarct. Isl. New Zealand p. 24 fig.—*E. melvilli* sp. n. Malay Archipelago, SCHEPMAN Résult. Expl. Siboga Monogr. **49**[1]c Livr. 46 p. 236.—*E. antarctica* sp. n. Antarktic, STREBEL Schwed. Südpolar-Exp. **6** I p. 65 figs.—*E. conamnis* with *angulata* var. n. *piperita*, spp. n. Hope Is., HEDLEY Sydney Proc. Linn. Soc. **34** p. 451 figs.—*E. tulearensis*, sp. n. Madagascar, LAMY Bul. Mus. Paris **1909** p. 369.

Eulimella distorta Verrill 1881 and G. O. Sars 1878 (not *distorta* Deshayes, etc.) = *perversa* nom. n. *intermedia* Verrill 1881 (not *E. intermedia* Cantraine 1835, etc.) = *sarsi* nom. n., *ventricosa* Verrill 1880 (not Forbes 1843) = *E. polita* Verrill 1872 and *Aclis tenuis* Verrill 1882 (not *Eulimella ventricosa* Bartsch 1909), *lucida* (Verrill 1884) Bartsch 1909 does not conflict with *E.* (*Syrnola*) *lucida* A. Adams 1870, *nitida* (Verrill 1884) Bartsch 1909 preoc. = *E. verrilliana* nom. n., BUSH Amer. J. Sci. **27** pp. 478–479.—*E. sibogae* sp. n. Malay Archipelago, SCHEPMAN Résult. Expl. Siboga Monogr. **49**[1]c Livr. 46 p. 244.

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Eunaticina albosutura sp. n. South Australia, VERCO Proc. R. Soc. S. Aust. **33** p. 334 fig.

? *Euthria contraria* sp. n. Nord Argentinien, STREBEL Schwed. Südpolar Exp. **6** I p. 29 fig.

†*Faqesia bombe* sp. n. Kreide Egypten, ECK Berlin SitzBer. Ges. natf. Freunde **1909** p. 181.

†*Fastigiella* (*Mellevillia*) *mengeli* sp. n. DONCIEUX Ann. Univ. Lyon **22** 1908 p. 120 pl. 7 fig. 3.

†*Faunus angustus* p. 205 pl. 11 fig. 14, *F.* (*Melanatria*) *boriei* p. 206 fig. 15, *farinensis* p. 208 fig. 16, *archiaci* p. 210 pl. 12 fig. 1, spp. n., DONCIEUX Ann. Univ. Lyon **22** 1908.

Fenella geayi, sp. n. Madagascar, LAMY Bul. Mus. Paris **1909** p. 369.

Fluvina marginata, *trochiformis*, spp. n., Malay Archipelago, SCHEPMAN Res. Exp. Siboga Livr. 43 Mon. **49** b p. 220–221 figs.

†*Fusinus* (*Buccinofusus*) *coosensis* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** p. 11 fig.

Gibbula dacostana, *tenuilirata*, spp. n., Queensland, PRESTON London Proc. Malac. Soc. **8** pp. 377–378 figs.—*G. callostomoides* sp. n. Samoa, OBERWIMMER Wien Denkschr. Ak. Wiss. **84** p. 521.

†*G. fischeri* sp. n. Algeria, LAMOTHE et DAUTZENBERG J. conchylio. Paris **55** 1907 pp. 358–360 figs.—*G. tournali* sp. n., DONCIEUX Ann. Univ. Lyon **22** 1908 p. 242 pl. 13 fig. 10.

†*Girtyocalia* nom. n. pro *Heterocalia* Girty 1908, COSSMANN Rev. crit. paléozool. Paris **13** p. 67.

†*Givortia gennevauxi*, sp. n., DONCIEUX Ann. Univ. Lyon **22** 1908 p. 88 pl. 5 fig. 1.

Glyphostoma tribulatum sp. n. Hope Is., HEDLEY Sydney Proc. Linn. Soc. **34** p. 454 fig.

†*Gortania* nom. n. pro *Microphthalmus*, Gortani 1907, COSSMANN Rev. crit. Paléozool. Paris **13** p. 67.

†*Grandioculus* nom. n. pro *Megalophthalmus*, Lorentz. 1906, COSSMANN Rev. crit. paléozool. Paris **12** 1908 p. 68.

Gyrineum perca, aculeata, var. n. Malay Archipelago, SCHEPMAN Rés. Exp. Siboga Livr. 43 Mon. 49'b p. 115 fig.

†*G. mediocre* sp. n. Oregon Miocene, *G.* (*mediocre* var.?) *corbiculatum* var. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 pp. 54–55 figs.

†*Gyrodes manuanensis* sp. n. Zululand Cretaceous, NEWTON Trans. R. Soc. South Africa 1 p. 18 figs.

†*Handlirschogryllus* nom. n. pro *Geinitzia* Handl. 1906, COSSMANN Rev. crit. paléozool. Paris 12 1908 p. 68.

Helicina vanattae sp. n. Mexico, PILSBRY Proc. Acad. Philadelphia 61 p. 540.—*H. ucritella* subspp. n. *diplocheila* Jamaica p. 213, *schlüteri* Peru p. 221, *pandiensis ocanensis* New Granada pp. 221 & 223, *infesta, ernesti*, subsp. *laus, steindachneri* and subsp. *superstructa* Venezuela, pp. 222–224, spp. n. and subspp. n., *leopoldinae, wettsteini*, spp. n., Brasilien, pp. 228 & 229. *H.* (*Retorquata* subg. n.) *funcki* subsp. *costaricensis* subsp. n. p. 333, *vernalis* subsp. *senachneusis*, subsp. *verapazensis microdina*, subsp. *incommoda*, subspp. n., Guatemala, pp. 234–235 & 238, WAGNER Wien Denkschr. Ak. Wiss. 78 figs.

Helicindae: *Kalokonia, Angulata, Rostrata, Succincta, Orbiculata, Subglobulosa, Euneritella, Punctiscalata, Concentrici, Variabilis, Turbinata*, sec. grpp. n., WAGNER Wien Denkschr. Ak. Wiss. 78 pp. 204–240.

†*Helicotoma missouriensis* sp. n. Missouri Ordovician, BRANSON St. Louis Trans. Acad. 18 p. 44 figs.

Hemipleurotoma mayi sp. n. South Australia, VERCO Proc. R. Soc. S. Aust. 33 p. 295 fig.

†*Hindsiella praecursor* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique 5 1908 p. 46 figs.

Homalogyra? atomus burdwoodianus var. n. Falkland Inseln, STREBEL Schwed. Südpolar-Exp. 6 1 pp. 52–53 figs.

†*Hormotoma latiangularis, fasciata* spp. n., Missouri Ordovician, BRANSON St. Louis Trans. Acad. Sci. 18 p. 45 figs.

Iradella subg. n. vide *Odostomia*.

Joculator subgen. n. type *Cerithiopsis ridicula* Watson, HEDLEY Sydney Proc. Linn. Soc. 34 p. 442.

†*Juliana hinterholzensis* sp. n. Niederoesterreich, TRAUTH Wien Beitr. Pal. Geol. OestUng. 22 p. 126.

†*Katosira chartroni* sp. n. Vendée, COSSMANN Havre Bull. soc. géol. 27 1907 (1908) p. 51. fig.

†*Kittlitrochus* nom. n. pro *Paratrochus* Kittl. 1899, COSSMANN Rev. crit. paléozool Paris 13 p. 67.

Kobeltocochlea gen. n. für *Hydrobia martensiana* Dyb. 1875, *martensiana olchonensis* var. n. Baikal See, LINDHOLM Zool. Exped. Baikal-See Lfg. 4 p. 36.

Laevilitorina caliginosa aestualis var. n. Falkland Inseln, STREBEL Schwed. Südpolar-Exp. 6 1 p. 51 figs.

Larina (?) *turbinata* sp. n. Victoria, GATLIFF & GABRIEL Proc. R. Soc. Vict. 22 p. 35.

†*Lathyrus* sp. n. France Tertiary, STAADT Bul. soc. Reims 17 (1908) p. 39.

Leptothyra crassilirata sp. n. N. Queensland, PRESTON London Proc. Malac. Soc. 8 p. 377 fig.—*L. gardineri* sp. n. Coetivy Isd., MELVILL London Trans. Lin. Soc. 13 p. 82 fig.

†*L.* (*Otaulax*) *conoidea* sp. n., DONCIEUX Ann. Univ. Lyon 22 1908 p. 241 pl. 13 fig. 9.

†*Levifusus fulguriparens* sp. n. Louisiana Eocene, MAURY Amer. J. Sci. 27 p. 335 fig.

†*Limnoscala* gen. n. *Lacuna cliona* de Raine and M. Ch., *formosa* sp. n. pl. 4 fig. 6–7 p. 196, RASPAIL Feuille jeunes natural. 39

†*Liomesus sulculatus* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 44 fig.

Liota tribulationis, anxia, spp. n., Hope Is., HEDLEY Sydney Proc. Linn. Soc. 34 pp. 436–437 figs.

†*Lithoglyphus antiquus* sp. n. Pleistozän Ungarn, KORMOS Földt. Közl. Budapest 39 pp. 5–7 & 96–99.

†*Littorina petricola* sp. n. Oregon Pleistocene, DALL Washington Dept.

Int. U. S. Geol. Surv. Prof. Pap. 59 p. 80 fig.—*L.* (?) *chartsoni*, sp. n., Vendée, COSSMAN Havre Bull. soc. géol. 27 1907 (1908) p. 56 figs.

†?*Littoriniscala multicincta* sp. n., DONCIEUX Ann. Univ. Lyon 22 1908 p. 228 pl. 12 fig. 14.

†*Longstaffia* nom. n. pro *Tubulosa* Longstaff 1906, COSSMANN Rev. crit. paléozool. Paris 12 1908 p. 68.

†*Lorentzia* nom. n. pro *Loparia* Lorentz 1906, COSSMANN T.c. p. 68.

†*Lucasiella* nom. n. pro *Philipiella* Lucas 1907, COSSMANN T.c. p. 67.

†*Mavsia* nom. n. pro *Paraphyllites* Maas, COSSMANN T.c. p. 67.

Manzilia (*Daphnella*) *angusticincta* sp. n. Ceylon, PRESTON Rec. Ind. Mus. 3 p. 136.—*M. anxia, calcata, infulata, naufraga*, spp. n., *conata* var. n., *perissa, rigorata*, spp. n., Hope Is., HEDLEY Sydney Proc. Linn. Soc. 34 pp. 457–459 figs.—*M. munda* sp. n. New Zealand, SUTER Rec. Canterbury Mus. 1 p. 129 fig.—?*M. cingulata* sp. n. Uruguay, STREBEL Schwed. Südpolar-Exp. 6 1 p. 20 figs.—*M. gattiffi, impendens*, spp. n. South Australia, VERCO Proc. R. Soc. S. Aust. 33 pp. 312 & 313 figs.

Margarita subantarctica, notalis, spp. n., Süd Georgien, STREBEL Schwed. Südpolar-Exp. 6 1 p. 76 figs.

†*Margarites* (*Lirularia*) *condoni* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 97 figs.

Marginella anxia sp. n. Hope Is., HEDLEY Sydney Proc. Linn. Soc. 34 p. 452 figs.—*M.* (*Glabella*) *plicatula* sp. n. Auckland Isds., SUTER Subantartic Is. New Zealand 1 p. 29 figs.

†*Melanatria bosniaca* sp. n. Ostbosnien, OPPENHEIM Wien Jahrb. Geol. Reh. Anst. 58 1908 p. 336.

Melania salibabuensis sp. n. Malay Archipelago, SCHEPMAN Rés. Exp. Siboga Livr. 43 Mon. 49 b p. 191 fig.—*M. rechingeri* p. 518, *M.* (*Tarebia*) *sturanyi* p. 517, spp. n., Bougainville, OBERWIMMER Wien Denkschr. Ak. Wiss. 84.

†*Melinopsis relisa, katzeri*, spp. n., Bosnia Tertiary, BRUSINA Wiss. Mitt. Bosn. Herzeg. 11 p. 575 figs.—*M. elongata* p. 202 pl. 11 fig. 9, *concinna* fig. 10, (*Canthodonta*) *nodosa* p. 203 fig. 11, (?*Macropara*) *brevis* p. 204 fig. 12, (*Captostylus*) *costulata* p. 205 fig. 13, spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.—*M. praemorsa subpraemorsa* form. n. Oberer Miocän Tiflis, BOGATCHEW St. Petersburg Bull. Com. geol. 27 1908 p. 246.

†*Melania holdeverti*, sp. n., DONCIEUX Ann. Univ. Lyon 22 1908 p. 186 pl. 10 fig. 9.—*M. tuniarnia* nom. n. pro *obrata*, Locard 1889, COSSMANN Rev. crit. paléozool. Paris 11 1907 p. 64.

Micromelania dybowskii sp. n. Schwarzes Meer, MILASZEWICZ Ann. mus. zool. St. Petersburg 14 p. 312 fig.—*M. lineata*, Mil. Deser. Black Sea, MILASCEWICZ Ann. Mus. St. Petersburg 14 p. 148.

†*Microcylas* gen. n., *lamellosus* sp. n. pl. 4 fig. 27–29 Oise, RASPAIL p. 197 Feuille jeunes natural 39.

†*Microschiza colpophora, macrospira*, spp. n., Vendée, COSSMANN Havre Bull. soc. géol. 27 1908 pp. 54–56 figs.

Minolia cinerea sp. n. N. Queensland, PRESTON Proc. Malac. Soc. London 8 p. 378 fig.

†*Miopleiona* gen. n. *velutina*, type *Rostellaria indurata* Conrad, *oregonensis* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 pp. 35–36 figs.

Mitra arnoldi, bellapicta, retrocurvata, spp. n., South Australia, VERCO Proc. R. Soc. S. Aust. 23 pp. 336–338. figs.

Mitromorpha alba var. *axicalpta, angusta, axicostata, parda* and var. *lineata, pracilirata* and var. *crassilirata*, spp. and varr. n., South Australia, VERCO Proc. R. Soc. S. Austral. 33 pp. 329–333 figs.

Mitrularia costifera, sp. n., Malay Archipelago, SCHEPMAN Rés. Exp. Siboga Livr. 43 Mon. 49 b p. 201 fig.

†*Molopophorus gabbi* sp. n. Oregon Eocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 45 fig.

†*Monjuvella* sec. n. *Pithocellus* p. 200, *cuneiformis, extensiva, kokchetavensis, anomala, gracilis*, spp. n., France Cainozoic, pp. 198–199, figs., RASPAIL Feuille jeunes naturel 39.

†*Monodonta dubia* p. 247 pl. 13 fig. 14. *lignoni* p. 248 fig. 15. spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.

Morio granulosa, lineata, spp. n., Malay Archipelago. SCHEPMAN Rés. Exp. Siboga Livr. 43 Mon. 49¹b pp. 123–124 figs.

Mucronalia parva, varicosa, spp. n., Malayischer Archipel, SCHEPMAN T.c. p. 4.

†*Muricopsis leymeriei*, sp. n., DONCIEUX Ann. Univ. Lyon 22 1908 p. 82 pl. 4 fig. 14.

Nassa shawi sp. n. Ceylon. PRESTON Rec. Ind. Mus. 3 p. 137.—*N. flammulata* sp. n. Peru. PRESTON Ann. Mag. Nat. Hist. 3 p. 512 fig.

Nassaria mordica sp. n. Hope Is., HEDLEY Sydney Proc. Linn. Soc. 34 p. 462 fig.

Natica nebulosa, crassa, supraornata, simplex, spp. n. Malay Archipelago. SCHEPMAN Res. Exp. Siboga Livr. 43 Mon. 49¹b pp. 209 & 212–213 figs.—*N. impervia major, georgiana, subpallescens, aureolutea* spp. and var. n., Antarktic oder Südgeorgien, STREBEL Schwed. Südpolar-Exp. 6 1 pp. 61–63 figs.—*N. sticta* sp. n. South Australia, VERCO Proc. R. Soc. S. Aust. 32 p. 333 figs.—*N.* (*Lunatia*) *faba* sp. n., Malay Archipelago, SCHEPMAN Res. Exp. Siboga Livr. 43 Mon. 49¹b p. 214 fig.

†*Natica guppiana* sp. n. Panama Jungtertiär, TOULA Wien Jahrb. Geol. ReichsAnst. 58 p. 696.—*N.* (*Cryptomatica*) *consors* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 pp. 86–87 figs.—*N.* (*Megatylotus*) *praetoriana*, *N.* (*M.*?) *hospitalis*, *N.* (*Naticina*) *comitalis*, spp. n., Oligocaen, OPPENHEIM Wien Jahrb. Geol. ReichsAnst. 58 1908 pp. 333 & 334 figs.—*N.* (*Naticina*) *custugensis* sp. n., DONCIEUX Ann. Univ. Lyon 22 1908 p. 227 pl. 12 fig. 13.

Neoneucinum praeclarum sp. n. Antarktic, STREBEL Schwed. Südpolar-Exp. 6 1 p. 31 fig.

†*Nerinea granosocostata* sp. n. Sicily Jurassic, GEMMELLARO Palermo Giorn. sc. nat. econ. 27 p. 251 fig.

†*Nerinella adelia* sp. n. Sicily Jurassic, GEMMELLARO T.c. p. 250 fig.

†*Nerita multicarinata* p. 235 pl. 13 fig. 2, *maculata* p. 236 fig. 3, *custugensis* fig. 4. (*Odontostoma*) *boriesi* fig. 5 p. 237, spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.

Neritina fluviatilis crassa form. n., Deutschland, HILBERT Königsberg Schr. physik. Ges. 49 p. 401.

†*N. sanctifelicis* sp. n., DONCIEUX Ann. Univ. Lyon 22 1908 p. 234 pl. 13 fig. 1.

†*Neritopsis vidali* sp. n., DONCIEUX T.c. p. 239 pl. 13 fig. 6.

†*Newtoniella tuberculosa*, sp. n., DONCIEUX T.c. p. 177 pl. 9 fig. 16.

Niso smithi sp. n. Malay Archipelago, SCHEPMAN Résult. Expl. Siboga Monogr. 49¹c Livr. 46 p. 238.

Obertio vulnerata sp. n. Hope Is., HEDLEY Sydney Proc. Linn. Soc. 34 p. 439 fig.

Odostomia rissoiformis nom. n. fur *rissoides* des Scharzen und Mittelländischen Meeres, MILASZEVICZ Ann. mus. zool. St. Petersburg 14 p. 315.—*O. abjecta, adipata, anxia, articulata, chorea, gamia, laquearia, maccullochi, migma, sperabilis, tribulationis*, spp. n., Hope Is., HEDLEY Sydney Proc. Linn. Soc. 34 pp. 444–448 figs.—*O. biplicata* sp. n. Falkland Inseln., STREBEL Schwed. Sudpolar-Exp. 6 1 p. 65 figs.—*O.* (*Chrysallida*) *willisi* Prince Edward I., *bushiana* New England, *O.* (*Evalina*) *winkleyi* Connecticut, *O.* (*Iolaea*) *hendersoni* Massachusetts. spp. n. *morseana* nom. n. for *sulcata* Verrill, pp. 99–101 & 104 figs., *O.* (*Menestho*) *trifida bedequensis* Prince Edward I., *bisuturalis ovilensis* Maine. subspp. n. pp. 106–107 figs., BARTSCH Proc. Boston Soc. 34.—*O.* (*Chryssalida*) *bushiana* Bartsch 1909 (not *O. bushiana* (V.) Jeffreys 1884) *O. magnifica*, (*Iolaea*) *hendersoni* Bartsch = *Aclissstriata* Verrill 1880 (immature), (*Menestho*) *sulcata* Verrill 1880 & 1882 = *O. sulcosa* Mighels 1843) Gould 1870, hence *morseana* Bartsch not needed, *O. trifida* Totten = var. *bisuturalis* Say, *O. modesta* Bartsch 1909 (not *O. modesta* (Stimpson 1851) Verrill, etc.) *O. gibbosa* nom. n., (not *Chemnitzia gibbosa* Carpenter 1857 = *Turbonilla*). *O. eburnea* Binney-Gould 1870 (not *O.* (*Liostomia*) *eburnea* (Stimpson) 1851 & 61 Sars 1878) sp. n. (*O. binneyi*), *O. dealbata* Binney-Gould 1870 (not *O.*

dealbata (Stimpson 1851) V.) *O. gouldii* nom. n., Brsn Amer. J. Sci. **27** pp. 482–484 fig.—*O.* (*Salassiella* subgen. n.) *laxa*, Lower California, *richi* California, spp. n., p. 133, *O.* (*Salassia*) *tropidita* nom. n. *Salassia carinata* De Folin, p. 134. *O.* (*Beela*) *callimorpha* nom. n. *Chrysallida pumila* Carpenter, *O.* (*Chrysallida*) *excelsa* Bay of Panama, *acrybia* Lower California, *torrita* Mexico, *licina*, *talama*, Lower California, spp. n., pp. 136 140–143 figs. *ritteri* off California. 8 n. *rinella* Bay of Panama, *eugena* Lower California and California, *trochis* California, *lucca* off California, *clementina* California. spp. n. pp. 146–149 figs., *oonisca* nom. n.—*Chrysallida ovulum* Carpenter, *oldroydi* California, *loomis* Bay of Panama, *vicola* California. *hipolitensis* Lower California, spp. n. pp. 150 153–155 figs., *lapazana* off Lower California, *tyleri* Bay of Panama. *scammonensis* Lower California, *pulcia* California, spp. n. pp. 156–158 160 figs., *virginalis* nom. n.—*Evalea gracilienta* (Carpenter) Keep. *defolinia* nom. n.—*Noemia angusta* De Folin. *defolinia difficilis* nom. n.=*Noemia angusta* var. *ovata* De Folin, *benthina* nom. n.—*Chrysallida oblonga* Carpenter. pp. 161–163 figs., *promeces* Lower California, *pulcherrima* California, *vincta* California, *helya* California. *sanctorum* Lower California spp. n. pp. 164–167 figs., *sapa* California *deceptrix* Lower California, (*Egila*) *poppei* Lower California, spp. n. pp. 168–170 figs., *O.* (*Iridella* subgen. n.), *pedroana* sp. n. California. *orariana* nom. n.—*Cingula* (?) *turrita* C. B. Adams, *O.* (*Miralda*) *hemphill* Lower California and California, *acypsola* California spp. n. pp. 172 175 178 figs., *galapagensis* sp. n. near Galapagos Is., *O.* (*Iolaea*) *encosmia* nom. n.—*Oscilla inscalpta* (Carpenter) Keep, *O.* (*Menestho*) *amilda* California and Lower California *parma* California. *enora* California spp. n. pp. 179 183 187–189 figs., *chilensis* Chile, *petalla* California, *hypocurta* Alaska. *O.* (*Evalea*) *unimakensis* Alaska, *kiliuncensis* Alaska spp. n. pp. 189–190 194–195 figs., *esilda* off California, *elestica*, *kulakensis*, Alaska, *herilda* off California, *sesto* California spp. n. pp. 196–198 figs., *io* California, *pratema* off California, *septentrionalis*, *capitata*, *O. unalaskensis* Alaska spp. n. pp. 199–200 200 203 figs., *obesa* California, *lucasana* Lower California, *phanella*, *santarosana* California, *socorronensis* Mexico, *domilla* California, spp. n. pp. 203–206 208 figs., *californica* California, *scrilla* off California, *amchitkana*, *stephensi*, *elessini* Alaska spp. n. pp. 208–211 figs., *minutissima* California, and Lower California, *raymondi*, *natilla*, *movilla*, *altina* off California, spp. n. pp. 211–214 figs., *profundicola* off California, *baranoffensis* Alaska, *hagemeisteri* Bering Sea, *resina* California, *parella* near Galapagos Is. spp. n. pp. 214–217 figs., *granadensis* off Panama Bay. *O.* (*Amaura*) *lactea* off California, *elsa* Alaska, *farallonensis* California, *sullana* Alaska spp. n. pp. 217–222 figs., *talpa* Alaska, *orcia* California, *arctica* Bering Sea, *moratora* off California, *pena* Alaska, *nota* California spp. n. pp. 222–226 figs., *iliuliukensis* Alaska, *subtarrita* California, (*Scaleno toma*) *dotella* off Mexico (*Odostomia*) *farella*, *dinella*, *coronalensis*, off California. spp. n. pp. 227–233 figs., DALL & BARTSCH Washington Nation. Mus. Bull. 68.

Olivia brettinghami N. W. Australia p. 203 fig., *andamensis* Andaman Islands p. 287. spp. n., BRIDGMAN London Proc. Malac. Soc. 8.

†*O. gatunensis* sp. n. Panama Jungtertiär, TOULA Wien Jahrb. Geol. Reichsanst 58 p. 702.

†*Olivancillaria auricularia plata* sub. sp. n. Argentina, IHERING An. Mus. Nac. Buenos Aires 10 p. 432.

olivella (?) *alborgensis*, *O. soldada*, spp. n., South Australia. VERCO Proc. R. Soc. S. Aust. 33 pp. 338 & 339 figs.

Oocorys weberi, *elongata*, spp. n., Malay Archipelago, SCHLESMAN Res. Exp. Siboga Livr. 43 Mol. 49 b pp. 120–121. figs.

†*Orthostylus*, *cossmanni*, sp. n., DESCHIEUX Ann. Univ. Lyon 22 1908 p. 121 pl. 7 fig. 4.

Pachychilus pila, *trilla*, *montezumensis*, *phaeromatus* subspp. n., Mexico and *transversus*, *strictus* with subspp. *gracilis* and *angustissimus*, *hamatus*, *rimachus*, *tollocanensis* subsp. n., *xochicalcensis*, *saturalis*, *phaeotinus* spp. and subspp. n., Mexico. PILSBRY & HINKLEY Philadelphia Proc. Acad. 61 pp. 521–531 figs.

Palaeohelicina hara Britisch Neu-Guinea. **sp. n.** p. 204 figs., *spinifera*, *inflata*. Neu Irland, p. 206 figs., *moquiniana christovalensis* **subsp. n.** p. 205 fig., *spinifera isabelensis*, Salomonen p. 207 fig., *P.* (*Ceratopoma*) *contermina camiguinensis* Luzon p. 210 figs. **subspp. n.**, WAGNER Wien Denkschr. Ak. Wiss. **78**.

Paludestrina valenciae **sp. n.** Venezuela, PRESTON Ann. Mag. Nat. Hist. **3** p. 513 fig.

†*P. limnaeiformis* **sp. n.** France, CAZIOT Paris Bull. soc. géol. **8** 1908 p. 13.

Paludomus annandalei **sp. n.** S. India, PRESTON Rec. Ind. Mus. **3** p. 277.

Parabaikalia **subgen. n.** vide *Baikalia*.

Paradmete **gen. n.**, STREBEL Schwed. Südpolar-Exp. **6** p. 22.—*Paradmete typica*, *curta*, *longicauda*, **spp. n.**, Süd Georgien, STREBEL Schwed. Südpolar-Exp. **6** 1 pp. 22–24.

Parthenina tenuistriata **sp. n.** Schwarzes Meer, MILASZEVICZ Ann. mus. zool. St. Petersburg **14** p. 314.

Patinella polaris concinna **var. n.** Süd Georgien, STREBEL Schwed. Südpolar-Exp. **6** 1 p. 82 & 83 figs.

Pentadactylus ceylonicum **sp. n.** Ceylon PRESTON Rec. Ind. Mus. **3** p. 137.

Perissodonta mirabilis georgiana **var. n.** Süd Georgien, STREBEL Schwed. Südpolar-Exp. **6** 1 p. 46–47 figs.

†*Peracritrochus* **nom. n.** pro *Conotrochus* Perner, COSSMANN Rev. crit. paléozool Paris **12** p. 67.

Pfefferia **gen. n.**, *palliata*, *clata*, *cingulata*, *chordata*, **spp. n.** Süd Georgien, STREBEL Schwed. Südpolar-Exp. **6** 1 pp. 33–37 figs.

†*Phalium* (*Bezoardica*) *turricula*, *acquisulcatum* **spp. n.** Oregon Miocene DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** pp. 63–64, figs.

Phenacolepas granulosa Insel Tiaro p. 31, *lacricostulis* l. ignotus p. 31 *arabica* mare rubrum p. 32 *indica* Vorder Indien p. 33, *reticulata* O.-Australien p. 34, *Krecki* Buchu v. Batavia p. 35, *elongata* l. ign. p. 37, *tenuisculpta* Fidschi Inseln p. 37, *guttata* Ost-Indien p. 37. **spp. n.**, THIELE Conchyliencabinet Bd. Abt. 11a, pp. 31–37.

†*Phos gatunensis* **sp. n.** Panama Jungtertiär, TOULA Wien. Jahrb. Geol. RchsAnst. **58** p. 701.

Photinula achilles **sp. n.** Süd Georgien, STREBEL Schwed. Südpolar-Exp. **6** 1 p. 73 figs.

†*Pisanella cathalai*, **sp. n.**, DONCIEUX Ann. Univ. Lyon **22** 1908 p. 73 pl. 4 fig. 7.

†*Platyceras pulcherrimum*, *anomalum*, Missouri **spp. n.**, Carboniferous, ROWLEY Missouri Bur. Geol. Mines **8** pp. 89 & 90 figs.

Plesiotrochus fischeri **sp. n.** Christmas Island, SMITH London Proc. Malac. Soc. **8** p. 370.

Pleurotoma millepunctata sp. n. New Caledonia, SOWERBY Proc. Malac. Soc. London **8** p. 198 fig.

†*P.* (*Drillia*) *gatunensis* Jungtertiär p. 707, *P.* (*Genota*) *gertrudis* p. 708 **spp. n.**, Panama Jungtertiär, TOULA Wien Jahrb. Geol. RchsAnst. **58**.—*P.* (*Hemipleurotoma*) *brevicosta* pl. 2 fig. 15, *P.* (*Eophurotoma*) *romani* fig. 16 p. 41, *cathalai* p. 43 fig. 17, *corbarica* p. 44 fig. 18, *hildeverti* p. 45 fig. 19 **spp. n.**, DONCIEUX Ann. Univ. Lyon **22** 1908.

†*Pleurotomaria suprastriata*, **sp. n.** Iserlohn Devonian, TORLEY Berlin Arb. geol. Landesanst. **53** 1908 p. 43.—*P. carniolica* **sp. n.** Carniola Tertiary, HILBER Carniola Laibach **2** p. 21 figs.—*P. carniolica*, *styriaca* Krain, [Austria] **spp. n.**, HILBER Wien Jahrb. Geol. RchsAnst. **58** pp. 621–623.

?*Pleurotomella bathybia* **sp. n.** Süd Georgien, STREBEL Schwed. Südpolar-Exp. **6** 1 p. 20 figs.

†*Polinices* (*Euspira*) *galianoi* **sp. n.** Oregon and Washington Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** pp. 86 & 87 figs.

†*Potamides* (*Ptychopotamides*) *quadricinctus* p. 127 pl. 7 fig. 8, *P.* (*Cerithidia*) *crassigranulosus* fig. 9, *P.* (*Tylochilus*) *constalei* fig. 10 p. 129, *granosus* p. 130 fig. 11, *acutus* p. 131 fig. 12, *goryi* fig. 13, *brevis* p. 132, *multigranosus* p. 134 fig. 15, *siminudus* p. 135 fig. 16, (*Pirenella*) *crassicostatus* p. 136, fig. 17, **spp. n.**, DONCIEUX Ann. Univ. Lyon 22 1908.

†*Prione pacifica* sp. n. Oregon Miocene. DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** pp. 56–57 figs.

†*Procerithium suturatum*, sp. n. Vendée, COSSMANN Havre Bul. soc. géol. **27** 1907 (1908) p. 49 fig.

†*Proheligmus* nom. n. pro *Eligmus* pracocc., COSSMANN Rev. crit. paléozool. Paris **13** p. 67.

Promargarita gen. n., *tropidophorides* sp. n. Süd Georgien, STREBEL Schwed. Südpolar-Exp. **6** 1 p. 74–75 figs.

†*Psephaea* (*Eopsephaea*) *constalai* p. 57 pl. 3 fig. 4, *atacica* p. 58 fig. 5, *rabatensis* p. 59 fig. 6 spp. n., DONCIEUX Ann. Univ. Lyon **22** 1908.

Pseudobaikalia subgen. n. vide *Baikalia*.

Pseudococculina concentrica sp. n. Nord. Atlantic, THIELE Conchylien-cabinet **2** Abt. 11a p. 20.

†*Pseudoliva brevis* p. 78 pl. 4 fig. 12 *poursauensis* p. 79 fig. 13 spp. n., DONCIEUX Ann. Univ. Lyon **22** 1908.

†*Pseudomelania gomobasis* sp. n. Vendée COSSMANN Havre Bull. soc. géol. **27** 1907 (1908) p. 53 figs.

†*Pseudomurchisonia kokeni* sp. n. Südtirol Trias. inf. WITTENBURG N. Jahrb. Min. 1908 p. 16.

†*Pseudotissotia koulalica* sp. n. Turkestan Cretaceous CLERC Bull. Acc. St. Petersburg **1909** p. 133.

†*Ptychomphalina weissenbachensis* sp. n. Nied. Oest. Triassic TOULA Wien Jahrb. Geol. Rchs Anst. **59** p. 399.

†*Ptygmatis cossmani carapezzai* spp. n. Sicily Jurassic GEMMELLARO Palermo Giorn. sc. nat. econ. **27** p. 251 figs.

†*Purpura perponderosa* sp. n. Oregon Miocene DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** p. 46 fig.

†*Purpurina* (*Encycloidea*) *vendaeensis* sp. n. Vendée COSSMANN Havre Bull. soc. géol. **27** 1907 (1908) p. 50 fig.

Pyramidella (*Pyramidella*) *bairdi* Gulf of California *P.* (*Voluspa*) *corrosana* Lower California *P.* (*Longchaus*) *mexicana* spp. n. Lower California and California *mazatlanica* off Mexico and California *P.* (*Pharcidella*) *panamensis* Panama Bay spp. n., DALL & BARTSCH Washington S. Nation. Mus. Bull. **68** pp. 19–26 figs.—*P.* (*Syrnola* ?) *winkleyi* sp. n. Connecticut, BARTSCH Proc. Boston Soc. p. 74 fig.

†*Pyrazus praeangulatus* p. 151 pl. 8 fig. 10, *angustus* p. 153 fig. 12, *vidali* p. 154 fig. 13 spp. n., DONCIEUX, Ann. Univ. Lyon **22** 1908.

Pyrgulina vignali sp. n. Madagascar, LAMY Bul. Mus. Paris **1909** p. 370.

Retorquata, subgen. n. vide *Helicina*.

Rimella cancellata minor form. n. Malay Archipelago. SCHEPMAN Rés. Exp. Siboga Livr. 43 Mon. **49**b p. 155.

†*R. atacica* p. 95 pl. 5 fig. 2, *inflata* p. 96 fig. 3, *angustata* p. 97 fig. 4 spp. n., DONCIEUX Ann. Univ. Lyon **22** 1908.

†*Risellopsis* gen. n. *Littorindae. subdisjuncta* sp. n. Vendée, COSSMANN Havre Bull. soc. géol. **27** 1907 (1908) pp. 59–60 figs.

Rissoa euxinica, var. *devexa* sp. n. & var. n. Schwarzen Meer. MILASCEWICZ Ann. Mus. zool. St. Peterburg **14** pp. 158–159.

Rissoia inornata Falkland Inseln. *Schraderi, insignificans, anderssoni, steineni*. Südgeorgien. *fuegoensis* Feuerland, *Sulcata* spp. n. Sudgeorgien. STREBEL Schwed. Südpolar-Exp. **6** 1 pp. 53–56 figs.—*R. kwandangensis* sp. n. Malay Archipelago. SCHEPMAN Rés. Exp. Siboga Livr. 43 Mon. **49** b p. 196 fig.

Rissonia zonata sp. n. New Zealand, SUTER London Proc. Malac. Soc. 8 p. 253 fig.—*R.* (*Eatonella*) *chiltoni* sp. n. Campbell Isds., SUTER Subantarctic Isl. New Zealand **1** p. 18 fig.

Rostellaria powisii abyssicola var. n. Malay Archipelago. SCHEPMAN Res. Exp. Siboga Livr. 43 Mon. **49** b pp. 154–155. fig.

†*R.* (?*Hippocrene. vinculosa* p. 98 pl. 5 fig. 5. *R.* (*Wateletia*) *tallavignesi* p. 100 fig. 6, *R.* (*Terebellopsis*) *rabetensis* p. 103 fig. 8 spp. n., DONCIEUX Ann. Univ. Lyon **22** 1908.

Salassiella subg. n. vide *Odostomia*.

Sandbergeria costulata sp. n., DONCIEUX Ann. Univ. Lyon **22** 1908 p. 183 pl. 10 fig. 8.

Scala tydemani, fragilissima, abyssicola pp. 224–226 figs., *S.* (*Clathrus*) *melvilli* p. 226 fig., *S.* (*Opulia*) *humerosa sibogae, nierstraszi*, p. 227 spp. n., Malay Archipelago, SCHEPMAN Res. Exp. Siboga Livr. 43 Mon. 49[1]b.

Scala vide etiam *Scalaria*.

S. zululandiae sp. n. Zululand Cretaceous. NEWTON Cape Town Trans. R. Soc. South Africa 1 p. 20 fig.—*Scalaria* (vide etiam *Scala*) *S.* (*Liriscala*) type *S. groenlandica* Chemnitz, (*Pyramiscala*) type *S. billandeli* Mayer, (*Coroniscala*) type *S. coronalis* Deshayes, (*Mammiscala* (type *S. ralphi* de Boury, (*Angustiscala*) type *S. germaini* de Boury, (*Confusiscala*) type *S. dupiniana* d'Orb., (*Undiscala*) type *S. undosa* Sow., (*Rudiscala*) type *S. rudis* Phil., (*Clariscala*) type *S. richardi* Dautz., (*Cylindriscala*) type *S. fulgens* de Boury, (*Contemniscala*) type *S. interrupta* Sow., (*Granuliscala*) type *S. granulosa* Quoy & G., (*Pseudoarcisa*) type *S. cizanconi* de Boury, (*Plesioarcisa*) type *S. subdecussata* Cantraine, (*Nitidiscala*) type *S. unifasciata* Sow., (*Laeviscala*) type *S. subauriculata* Souv., (*Turbiniscala*) type *S. souverbiei* de Boury, (*Glabriscala*) type *S. glabrata* Hinds, (*Acutiscala*) type *S. philippinarum* Sow., (*Foveoscala*) type *S. reflexa* Carpenter, (*Eburniscala*) type *S. venosa* Sow., (*Graciliscala*) type *S. gracilis* Sow., (*Striatiscala*) type *S. brugnonei* de Boury, (*Spiniscala*) type *S. frondicula* Wood (*Subuliscala*) type *S. banoni* Tournoüer, (*Longiscala*) type *S. polita* Sow., (*Gradutiscala*) type *S. gradata* Hinds, (*Delicatiscala*) type *S. ducalis* Mörch, (*Firmiscala*) type *S. multicostata* Sow., (*Dulciscala*) type *S. jomardi* Audouin, (*Minutiscala*) type *S. nana* Jeffreys, (*Connexiscala*) type *S. connexa* Sow., (*Recticuliscala*) type *S. uncinaticostata* d'Orb, (*Evolutiscala*) type *S. tiberii* de Boury (*Asperiscala*), type *S. bellastriata* Carpenter, (*Varicescala*) type *S. raricosta* Lam., (*Cinctiscala*) type *S. antillarum* de Boury, (*Depressiscala*) type *S. aurita* Sow., (*Decussiscala*) type *S. denticulata* Sow., (*Crebriscala*) type *S. crebrilamellata* Mayer-Eymar, (*Cirratiscala*) type *S. undulatissima* Sow., (*Ficiniscala*) type *S. pallasii* Kiener, (*Lineoscala*) type *S. lineolata* Kiener, (*Papyriscala*) type *S. latifasciata* Sow., (*Luniscala*) type *S. lyra* Sow., (*Sodaliscala*) type *S. multistriata* Say, (*Globiscala*) type *S. bullata* Sow., (*Lamelliscala*) type *S. fasciata* Sow., (*Anguliscala*) type *S. angulata* Say, (*Atomiscala*) type *S. Gosseleti* Briart and Cornet subgnn. n., DE BOURY J. Conchyliol. Paris 57 pp. 255–258.

Scalaria fenestrata sp. n. Süd Georgien, STREBEL Schwed. Südpolar-Exp. 6 1 p. 63 figs.

†*S.* (*Acrilla*) *boriesi* p. 230 pl. 12 fig. 15, *S.* (*Cirsotiema*) *fontcouvertensis* p. 231 fig. 16 spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.

Schasicheila xanthia sp. n. Mexico, PILSBY Proc. Acad. Philadelphia 61 p. 540 fig.

Scissurella clathrata sp. n. Feuerland, STREBEL Schwed. Südpolar-Exp. 6 1 p. 77 figs.

†*Scotlandia* nom. n. pro *Valentia* Smith 1907, COSSMANN Rev. crit. paléozool Paris 13 p. 68.

Sequenzia melvilli, dautzenbergi, sykesi, costulifera, spp. n., Malay Archipelago, SCHEPMAN Res. Exp. Siboga Livr. 43 Mon. 49[1]b pp. 178–182 figs.

†?*Semisinus fasciatus* sp. n., DONCIEUX Ann. Univ. Lyon 22 1908 p. 212 pl. 12 fig. 2.

Setia valvatoides sp. n. Schwarzen Meer, MILASCEWICZ Ann. Mus. zool. St. Petersburg 14 p. 155.

†*Sigaretus* (*Lupia*) *gatunensis* sp. n. Panama Jungtertiär, TOULA Wien Jahrb. Geol. RehsAnst. 58 p. 697.

Sipho (?*Mohnia*) *astrolabiensis* sp. n. Antarctic, *S.*? *chordatus* Süd Georgien, sp. n., STREBEL Schwed. Südpolar-Exp. 6 1 pp. 30–31 figs.

Siphonaria cookiana sp. n. New Zealand, SUTER London Proc. Malac. Soc. 8 p. 258 fig.

Sistrum andrewsi sp. n. Christmas Island, SMITH London Proc. Malac. Soc. 8 p. 369.

Skenella pfefferi sp. n. New Zealand, SUTER London Proc. Malac. Soc. 8 p. 253 fig.

Solariella aquamarina, incisura, S. (*Conotrochus*) *sayademalhana*. spp. n., Saya de Malha Banks, MELVILL London Trans. Lin. Soc. 13 pp. 80 & 81 fig.

†*Solarium pergranulosum* sp. n., DONCIEUX Ann. Univ. Lyon 22 1908 p. 214 pl. 12 fig. 3. *S. doncieuxi* nom. n. pro *simplex* Leymerie 1846, STAADT Rev. crit. paléozool. Paris 13 p. 68.

Sphaeroconia subgen. n. vide *Aphanoconia*.

†*Spiloptiloides* nom. n. pro *Spiloptilus* Handl. 1906, COSSMANN Rev. crit. paléozool. Paris 12 1908 p. 68.

Stilifer sibogae sp. n. Malayischer Archipel, SCHEPMAN Rés. Exp. Siboga. Livr. 42 Mon. 49 p. 5.

†*Strepsidura oregonensis* sp. n. Oregon Eocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 51 fig.

†*Streptochetus hexagonus* p. 68 pl. 4 fig. 3, *minimus* p. 69 fig. 4, spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.

†*Strigatella* (*Mitreola*) *nodulosa* sp. n., DONCIEUX T.c. p. 60 pl. 3 fig. 7.

†*Strombus gatuncensis* sp. n. Panama Jungtertiär, TOULA Wien Jahrb. Geol. RchsAnst. 58 p. 697.

Submargarita gen. n., *imperia* sp. n. Süd Georgien, STREBEL Schwed. Südpolar-Exp. 6 1 pp. 75 & 76 figs.

Subularia (?) *circumstriata* sp. n. Malay Archipelago, SCHEPMAN Result. Exp. Siboga Monogr. 49 c Livr. 46 p. 236.

Surculo ? *magnifica* sp. n. Antarktik, STREBEL Schwed. Südpolar-Exp. 6 1 p. 19 figs.

†*S. deperceti* p. 35 pl. 2 fig. 9, *maquelii* p. 36 fig. 10, *Constalei* p. 37 fig. 11, *granulosa* p. 38 fig. 12, *S.* (*Aprotoma*) *durestei* p. 39 fig. 14 spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.

†*Tegula* (*Chlorostoma*) *stantoni* sp. n. Oregon and California Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 95 figs.

Teratobaikalia subgen. n. vide *Baikalia*.

Terebra tristis, *crassicostata* subsp. n., *flexicostata* sp. n. New Zealand, SUTER London Proc. Malac. Soc. 8 p. 255 fig.—*T. caledonica* sp. n. New Caledonia, SOWERBY Proc. Malac. Soc. London 8 p. 198 fig.

†*T. gatuncensis*, *wolffanae*, spp. n., Panama Jungtertiär, TOULA Wien Jahrb. Geol. RchsAnst. 58 p. 705.

†*Terebralia pratensis*, pl. 8 fig. 8, *Courdettensis* fig. 9, spp. n., DONCIEUX p. 149 Ann. Univ. Lyon 22 1908.

†*Thais* (*Nucella*) *precursor* sp. n. Oregon Pleistocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 51 fig.

†*Tissotia schweinfurthi*, *securiformis* spp. n. kreide Egypten, ECK Berlin SitzBer. Ges. natf. Freunde 1909 pp. 184–191.

Torinia costata, *madurensis*, *mirabilis*, spp. n. Malay Archipelago, SCHEPMAN Rés. Exp. Siboga Livr. 43 Mon. 49 b pp. 221–223 figs.

Trichiobaikalia subgen. n. vide *Baikalia*.

Trichotropis orientalis sp. n. Malay Archipelago, SCHEPMAN Rés. Exp. Siboga Livr. 43 Mon. 49 b pp. 176–177 fig.

†*Triforis* (vide etiam *Triphora*) *fortunensis* pl. 10 fig. 1, *longissimus* fig. 2 p. 179, (*Epetrium*) *hildeberti* p. 180 fig. 3 spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.

Triphora (vide etiam *Triforis*) *tribulationis* sp. n. Hope Is., HEDLEY Sydney Proc. Linn. Soc. 34 p. 440 figs.—*T. dexia*, *epallaxa*, *subala*, *spina*, *spica*, *latilirata*, *armillata*, *albomitata*, var. *mamillata*, *carea*, *geomorpha*, *tasmanica* var. *lilacina* and var. *rirea*, *disjuncta*, spp. and varr. n. South Australia, VENCO Proc. R. Soc. S. Austral. 33 pp. 277–292 figs.—*T.* (*Euthymia*) *verslaya*, *schmidti*, spp. n., Malay Archipelago, SCHEPMAN Rés. Exp. Siboga Livr. 43 Mon. 49 b pp. 173 & 174 figs.—*T.* (*Mastonia*) *coelatissima* sp. n. Coctiva Isl., MELVILL London Trans. Lin. Soc. 13 p. 90 fig.

†*T. richei* pl. 10 fig. 4, *T.* (*Triforis*) *deperdita* fig. 5 spp. n., DONCIEUX p. 181 Ann. Lyon 22 1908.

†*Trichotropis multicostata* p. 75 pl. 4 fig. 9, *T.* (*Cryptorna*) *acuta* p. 76 fig. 10, *T.* (*Endopelagiella*) *albomarginata* p. 77 fig. 11 spp. n., DONCIEUX T.c.

Trichotropis, *[illegible]*, *[illegible]*, spp. n., Malay Archipelago, SCHEPMAN

Rés. Exp. Siboga Livr. 43 Mon. 49 b pp. 138–140 figs.— *T. oryza minor*, *siboga minor*, formm. n., Malay Archipelago, SCHEPMAN Rés. Exp. Siboga Livr. 43 Mon. 49 b pp. 137 & 140.— *T. corinneae* for *affinis* MARRAT, *edgari* for *grando* Gaskoin, nomm. n. pp. 308 & 310, *oculata rubra* var. n. Jeffreys Bay p. 312, SHAW London Proc. Malac. Soc. 8.

Trochus albidus var. n. *pontica* Schwarzes Meer, MILASZEVICZ Ann. mus. zool. St. Petersburg 14 p. 311.— *T.* (*Infundibulum*) *optatus* sp. n. Manila, SOWERBY Proc. Malac. Soc. London 8 p. 199 fig.

†*T. balticus*, *borussicus*, spp. n. Heilsberg Jura, KRAUSE Berlin Jahrb. geol. Landesanst. 29 pp. 311–313 figs.— *T. atavus* sp. n. Scandinavia Cambrian, MOBERG & SEGERBERG Lund. Univ. Arosskr. 2 No. 7 (1906) p. 74 fig.— *T.* (*Tectus*) *poursanensis* sp. n., DONCIEUX Ann. Univ. Lyon 22 1908 p. 244 pl. 13 fig. 12.

Trophon convexus sp. n. New Zealand, SUTER Rec. Canterbury Mus. 1 p. 126 fig.— *T. crispus* var. *burdwoodianum*, *falklandicus*, *cribellum*, *distantiamellatus*, *minutus*, *malvinarum*, Antarctic spp. and var. n., STREBEL Schwed. Südpolar-Exp. 6 1 pp. 38–44 figs.— *T. sepmentatus*, *plicilaminatus*, *recurvatus*, pp. 335 & 336, *longior*, *latior*, spp. n., South Australia pp. 273–274 figs., VERCO Proc. R. Soc. S. Austral. 33.— *T.* (*kalydon*) *erectus* nom. n. for *Trophon columnaris*, SUTER Subantarct. Is. New Zealand 1909 1 p. 27.— *T. subcylindrica* sp. n. Malay Archipelago, SCHEPMAN Result. Expl. Siboga Monogr. 49 c Livr. 46 p. 245.— *T. gabrielli perscalata*, *taylori*, *tenuissima*, *tribulationis*, spp. n., Hope Isl., HEDLEY Sydney Proc. Linn. Soc. 34 pp. 449–450 figs.

†*Turbo pachecus*, *rarus*, spp. n. Sicily Jura, GEMMELLARO Palermo Giorn. sc. nat. econ. 27 p. 243 figs.

Turbonilla costulata Verrill 1874 (not *T.* (*Pyrgiscus*) *mighelsi* Bartsch 1909)— *T. interrupta obesa* nom. n., *lactea* (Linné) Dall 1889 & Bartsch 1889 (not *T. typica* Dall & Bartsch 1903) type of *Turbonilla*, BUSH Amer. J. Sci. 27 pp. 483–484 figs.— *T.* (*Chemnitzia*) *hypolispa* sp. n. California, *appignata* Lower California and California, *santarosana* California spp. n., *paramana* nom. n.— *Chemnitzia simplex* C. B. Adams, *houseri* off Galapagos Is., *kelseyi* California spp. n., pp. 34–39 figs, *raymondi* California, *T.* (*Strioturbonilla*) *stephanoggra* Bay of Panama, *buttoni*, *asser*, California, *mexicana* Lower California, spp. n. pp. 39–45 figs., *T.* (*Strioturbonilla*) *attrita* California, *nicholsi* Gulf of California, *calvini* Lower California, *carpenteri* California, *simpsoni* off California, spp. n. pp. 46–49 figs., *profundicola* California, *gulianoi* California and Lower California, *humerosa* California, *aresta* California, *pazana* off Lower California spp. n. pp. 50–54 figs., *galapagensis* Galapagos Is., *phanea* off Lower California, *imperialis* Panama, *smithsoni* Cape St. Lucas spp. n. pp. 55–57 figs., *T.* (*Ptycheulimella*) *abreojensis* Lower California. *T.* (*Pyrgolampros*) *ridgwayi* California, *halibrecta* California, *gouldi* California, *halia* California, *alaskana* Alaska spp. n. pp. 59–70 figs., *painei* California, *keepi* off California, *halistrepta* off California, *lituyana* Alaska spp. n. pp. 71–73 figs., *T.* (*Pyrgiscus*) *annettae* off Ecuador, *vexatira* California, *obesa* spp. n. California, *favilla* nom. n. = *Chemnitzia cerlata* Carpenter, *pequensis* off Lower California, *nuttingi* off California, spp. n. pp. 76–79 figs. *callia* California, *superba* off Lower California, *pluto* off California, *jewetti*, *signa* California, spp. n. pp. 80–83 figs., *aragoni* off California, *recta* California and Lower California, *weldi* off California, *nercia* California, *antemunda* off California spp. n. pp. 85–88 figs., *macbridei* off Lower California, *nuttalli* South America, *macra* Lower California, *marshalli* off Lower California spp. n. pp. 90–94, figs., *almo* off California, *callipeplum*, *etina*, Panama Bay, *shimeki* off Galapagos Is., *sanctomm* off Lower California spp. n. pp. 95–98 figs., *halidoma*, *ceralva*, *lepta*, *histias* off Lower California, spp. n. pp. 99 104–106 figs., *wickhami* off California, *lara* off Lower California, *adusta* California, *larunda* off Lower California spp. n. pp. 106–109 figs., *T.* (*Mormula*) *regina*, *catalinensis*, *ambusta*, off California, *santosana* off Lower California, spp. n. pp. 112 113 & 115–117 figs., *heterolopha* California and Lower California, *aguacia* Lower California, *perscrutata* off California, *phalera* Panama Bay, spp. n. pp. 118–120 figs., *T.* (*Duckeria*) *sedulina* Gulf of California, *hapolitensis* Lower California,

excolpa Gulf of California, *andrewsi* Panama spp. n. pp. 121 & 122–124 figs., *T.* (*Dunkeria*) *arata* off California, *gemilla* Panama Bay, (*Pyrgisculus*) *mamillifera* Gulf of California, *eucosmia* off Lower California, spp. n. pp. 125 & 126 & 128 figs., *zacina* California, *T.* (*Cardiapsis*) *stenogyra* Lower California spp. n. pp. 129 & 130 figs., *T. centrota* nom. n.—*Chemnitzia acuminata* C. B. Adams, *Chrysallida acuminata* C. B. Adams, *cana* Gulf of Panama, *diegensis* California, *acia* off California, *lucina* Lower California, spp. n., pp. 30–32 figs., DALL and BARTSCH Washington U. S. Nation. Mus. Bull. 63.—*T.* (*Pyrgiscus*) *winkleyi arcilis* var. n. New England, *sumneri* Massachusetts, *whitearesi* Prince Edward I., *cascensis* Maine, *edwardensis* Prince Edward I., spp. n. pp. 92–93, 95–96 figs.—*T.* (*Syrnola*) *tryoni* nom. n. for *Syrnola smithii* Tryon, p. 71.—*T.* (*Strioturbonilla*) *bushiana abyssicola* subsp. n., off George's Bank and Martha's Vineyard, *T.* (*Pyrgiscus*) *verrilli* Martha's Vineyard, Mass., *crocea* Connecticut spp. n. pp. 80–83 figs., *elegantula branfordensis* subsp. n., New England, *michelsi* nom. n. for *Turbonilla costulata* Verrill, *bateesis* Massachusetts, *winkleyi* North-eastern United States spp. n. pp. 85–90 figs., BARTSCH Proc. Boston Soc. 34.—*T.* (*Pyrgiscus*) *interrupta* Bartsch 1909—*pseudointerrupta* nom. n. p. 481—*T. bushiana inornata* var. n., not referable to subgen. *Strioturbonilla* Bartsch. *polita* Verrill 1882 does not conflict with *Odostomia polita* Bivona 1832 nor Pease 1867 pp. 479–480, BUSH Amer. J. Sci. 27.

†*Turcica gabbi* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 96 fig.

†*Turcicula washingtoniana* Washington Oligocene, *columbiana* spp. n. Oregon Eocene, DALL l. c. pp. 99–100 figs.

†*Parris cossmanni*, *cambarensis*, *col.* *T.* (*Antiplanes*) *compressa*, spp. n., Oregon Miocene, DALL l. c. pp. 22–27 figs.

Turrella pseudolata ovata var. n. Malay Archipelago, SCHEPMAN Res. Exp. Siboga Livr. 43 Mon. 49 b p. 188 fig.

†*T. cossmanni*, *gabbi*, spp. n., Panama Junction, TOULA Wien. Jahrb. Geol. Reichs Anst. 58 1908 [1909] pp. 604 & 605.—*T. mediocancara* sp. n. Oberbonien, OPPENHEIM Wien Jahrb. Geol. Reichs-Anst. 58 1908 p. 334 fig.—*T. mamuanensis* sp. n. Zululand Cretaceous, NEWTON Trans. R. Soc. South Africa 1 p. 25 fig.—*T. quinquecarinata* p. 188 pl. 10 fig. 11, *carola* p. 189 fig. 12, *subcarinifera* p. 194 fig. 16, *bacheri* p. 197 pl. 11 fig. 4, *comalbacensis* p. 199 fig. 6, *custugensis* p. 200 fig. 7, spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.—*T.* (?) *syrinx* sp. n. Sicily Jurassic, GEMMELLARO Palermo Giorn. sc. nat. econ. 27 p. 248 fig.—*T. bieniazi*, *multicostata*, spp. n., Poland Tertiary, FRIEDBERG Kraków Bull. Intern. Acad. 1919 pp. 263 & 264 figs.

†*Tylotoma checchiai* sp. n. Sicily Jurassic, GEMMELLARO Palermo Giorn. sc. nat. econ. 27 p. 247 fig.

†*Tympanotomus catharicus* p. 139 pl. 8 fig. 1 sp. n., *siegfrieds* Douv. mut. n. *tuberculosa* p. 141 fig. 2, *pyrenaicus* p. 143 fig. 4, *lacrymosus* p. 144 fig. 6, *joaquinensis* p. 146 fig. 6, *beaudettensis* p. 147 fig. 7, spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.

Typhis horridula sp. n. South Australia, VERCO Proc. R. Soc. S. Aust. 33 p. 272 fig.

†*Valvatomorpha katzeri* sp. n. Herzegovina Tertiary, GORJANOVIĆ-KRAMBERGER Wien. Mitt. Bosn.-Herzeg. 11 p. 583 fig.

Valvata, *sibirica* (Middendorf) Dybowski, Lake Baikal, LINDHOLM Zool. Exped. Baikal-See Lfg. 4 p. 75 fig.—*V. tibet*, sp. n. Central Africa, GERMAIN Bul. Mus. Paris 1909 p. 376.—*V. jagorii* sp. n. Alpes-Maritimes, CAZIOT Paris Bull. Soc. zool. 34 p. 94 fig.—*V.* (*Atropidina*) *lacta* sp. n. Lake Baikal, LINDHOLM p. 74 fig.—*V.* (*Cincinna*) *cincinnata* var. *abbreviata*, *kerstensi*, var. and sp. n., pp. 72–73 figs.—*V.* (*Megalomastoma grebei* (B. Dybowski) Dybowski p. 76, LINDHOLM.—*V.* (*Liratoma*) *baikalana galgina* and *dorsata* varr. n. Lake Baikal pp. 78–79, LINDHOLM Zool. Exped. Baikal-See Lfg. 4.—*V.* (*Cincinna*) *subcingulata* sp. n. Montenegro, WOHLBEREDT Wien. Mitt. Bosn. Herzeg. 11 p. 697.

†*V. [illegible]* sp. n. Oligocene, RAFFAEL Feuille jeunes natural. 39 p. 100 pl. 4 figs. 21–23.

Vanikoro deuseliminata sp. n. South Australia, VERCO Proc. R. Soc. S. Aust. 33 p. 334 fig.

†*Velates spiratus* p. 232 pl. 12 fig. 17, *granulosus* p. 233 fig. 18 spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.

Vermicularia deposita sp. n. Hope I., HEDLEY Sydney Proc. Linn. Soc. 34 p. 443 fig.

Vexillum waitei sp. n. New Zealand, SUTER Rec. Canterbury Mus. 1 p. 124 fig.

Vitrella heldii, carychiodes, aciculoides Germany, spp. n., CLESSIN Frankfurt a. M. NachrBl. D. malakozool. Ges. 41 pp. 77–78.

Vivipara geoffreyi nom. n. for *Paludina martensiana* Nevill p. 374, *formosensis* sp. n. (*chinensis* var. ?) Formosa. p. 413. *javanica* subsp. n. *luzonica* Luzon p. 378, *bengalensis, mandiensis* and *nepalensis* varr. n. India p. 414, *fasciata vistulae* subsp. n. Russia p. 521, *pyramidalis, montovana, pseudofasciata* and *ceresia*, subspp. n. Italy, pp. 338 & 339, *anatolica* sp. n. See v. Sabandscha Lfg. 537 p. 351, *danubialis rumanica* subsp. n. Lfg. 537 p. 366, *contecta kormosi, pyramidalis erjavecii, mamillata carlovacensis, danubialis banatica*, subspp. n. Austria-Hungary, Lfg. 536 537, KOBELT in MARTINI & CHEMNITZ Syst. Conch. Cab. 1909 pp. 315 338 348 & 365.—*V. contecta* varr. n. *dalmatica* Dalmatia p. 7 and *turrita* Deutschl. p. 8, *fennica* Finnische Meerbusen p. 9, KOBELT in ROSSMÄSSLER Icon. d. Land. u. Susswasser Mollusken 15 Lfg. 1–2.—*V. bulauensis solana* subsp. n., *cebuensis* sp. n., *mindanensis mamanua* subsp. n., *pariellii, clemensi*, spp. n., Phillipines, BARTSCH Washington U. S. Nation. Mus. Proc. 37 No. 1709 pp. 366–367 figs.

Voluta fulgetrum dictua var. n. South Australia, VERCO Proc. R. Soc. S. Aust. 33 p. 274 fig.—*V. irvinae* sp. n. W. Australia p. 97 fig., *oblita* nom. n. *Voluta norrisii*, Auctt. non Gray, p. 96, SMITH Ann. Mag. Nat. Hist. 4.

†*V. brevispira*, DONCIEUX Ann. Univ. Lyon 22 1908 p. 52 pl. 2 fig. 22.

Volutaxiella gen. n., *translucens, subantarctica*, spp. n., Süd Georgien, STREBEL Schwed. Südpolar-Exp. 6 1 pp. 64 & 65 figs.

†*Volutilithes bouzignesensis* p. 54 pl. 3 fig. 2, *inflatus* p. 55 pl. 3 fig. 3. spp. n., DONCIEUX Ann. Univ. Lyon 22 1908.

†*Vonastia* gen. n., *micans* sp. n., pl. 4 figs. 3–5, Oise, RASPAIL p. 195 Feuille jeunes natural. 39.

†*Vaculana benshanseni* sp. n. Elber-Elberfelder Devon, SCHMIDT Elberfeld Jahresber. natw. Ver. 12 p. 58.

Xenophora gigantea sp. n. Malay Archipelago, SCHEPMAN Rés. Exp. Siboga Livr. 43 Mon. 49[1]b p. 204 fig.

OPISTHOBRANCHIA.

†*Actaeon* (*Tomatellaea*) *senessei* sp. n., DONCIEUX Ann. Univ. Lyon 22 1908 p. 33 pl. 2 fig. 8.

Actaeonina cingulata sp. n. Süd Georgien, STREBEL Schwed. Südpolar-Exp. 6 1 p. 8 figs.

†*A. weissenbachensis* sp. n. Nied. Oest. Triassic, TOULA Wien Jahrb. Geol. ReichsAnst. 59 p. 400.

Aglaja troubridgensis sp. n. South Australia, VERCO Adelaide Proc. R. Soc. S. Aust. 33 p. 276 figs.

Anderssonia gen. n. *sphinx* sp. n. Antarktik. STREBEL Schwed. Südpolar-Exp. 6 1 pp. 12–13 figs.

Antiopella indica sp. n. Okhamandal. ELIOT Rep. Gov. Baroda Marine Zool. 1 p. 143.

Cylichnina georgiana, cumberlandiana. spp. n. Süd Georgien, STREBEL Schwed. Südpolar-Exp. 6 1 pp. 10–11 figs.

Eliotia gen. n. voisin de *Madrella, souleyeti* sp. n., VAYSSIÈRE Paris C. R. Acad. sci. 149 p. 636.

Madrellidae fam. n. type gen. *Madrella*, VAYSSIÈRE T.c. p. 637.

Philine constricta auriformis subsp. n. New Zealand, SUTER London Proc. Malac. Soc. 8 pp. 257 figs.—*P. gibba* sp. n. Süd Georgien, STREBEL Wiss. Ergeb. Schwed. Südpolar-Exp. 6 1 p. 13 figs.—*P. beachportensis, evoluta*, spp. n., South Australia, VERCO Proc. R. Soc. S. Aust. 33 p. 275 figs.

Pseudoceros kentii, von Graff, published as a planarian, is a nudibranch mollusc, *Hexabranchus marginatus* Q. and G., HEDLEY Sydney Proc. Linn. Soc. 34 p. 464.

Retusa anderssoni, pfefferi, inflata, spp. n., Süd Georgien, STREBEL Schwed. Südpolar-Exp. **6** 1 pp. 9–10 figs. *R. impasta, pharetra*, spp. n., Hope I., HEDLEY Sydney Proc. Linn. Soc. **34** pp. 463–464 figs.

†*Scaphander conradi, oregonensis* spp. n., Oregon Miocene, DALL Washington U. S. Geol. Surv. Prof. Pap. **59** pp. 22 & 23 figs.

Tornatina biplicata, charlottae, cooki-iana, decapitata, tenuiberata, spp. n., New Zealand, SUTER London Proc. Malac. Soc. **8** pp. 255–257 figs.

PTEROPODA.

Clione gracilis sp. n. Coast of Ireland, MASSY Fisheries Ireland Sci. Invest. 1907 ii 1909 p. 48 figs.

†*Conularia holmii, rhodinensis*, spp. n., Silurian North Baltic, WIMAN Upsala Bull. Geol. Inst. **8** No. 2 pp. 116 & 141.

†*Tentaculites bacillus* sp. n., Rheinisches Schiefergebirge, HERRMANN Diss. Marburg **1909** p. 79.

Thilea procera sp. n., Feuerland Gebiet, STREBEL Schwed. Südpolar-Exp. **6** 1 p. 85 figs.

PULMONATA.

Achatina variegata var. n. *gracilis* West Africa p. 183, *dacostana* East Africa p. 182 fig., *lhotellerianae* Congo p. 88 fig., *subcylindrica* Natal p. 182 fig. spp. n., PRESTON Ann. Mag. Nat. Hist. **3**.

Achonomphalus subgen. n. vide *Choanomphalus*.

Acistia packlaensis with varr. n. *azona* and *rufula*, sp. n. Tonkin, BAVAY & DAUTZENBERG J. conchyliol. Paris **56** pp. 228–239 1908. *Acistia* vide etiam *Helix*.

Agriolimax pavarolianus, p. 9. *B. libanoticus* sp. n. Lebanon, p. 1. POLLONERA Boll. Mus. Torino **24** N. 608 tav.—*A. tibetanus* sp. n. mountain 14,500 ft. Tibet, GODWIN-AUSTEN Rec. Ind. Mus. **2** 1908 pp. 413–415.—*A.* (*Malacolimax*) *Kessellus*, var. *fulva* and *picturata* varr. n. Turks, GERMAIN Voyage Gadeau de K. en Khroumirie pp. 140 141.

Amphidromus peristriabilis and varr. *albina, pretricta, gomostoma* and *minor*, sp. and varr. n., Tonkin, BAVAY et DAUTZENBERG J. conchyliol. Paris **56** pp. 246–247 1908.

Ancylus (*Pseudancylastrum*) *boettgerianus* sp. n. Baikal See, LISBOHOM Zool. Exped. Baikal-See Lfg. **4** p. 28 figs.

†*Archaeozonita pelecystoma* sp. n. Diluvium Deutschl., NEUENHAUS Wiesbaden Jahrb. Ver. Natk. **62** p. 64.

Archelix pallaryi sp. n. Taforalt im Gebiet der Beni Snassen KOBELT Frankfurt a. M. Nachrbl. D. malakozool. Ges. **41** p. 134.

Artemonopsis subgen. n. de *Streptaxis*, *chevalieri* sp. n. Côte d Ivoire, GERMAIN J. conchyliol. Paris **56** pp. 98–99 1908 fig.

Ashmunella microdonta, levettei subspp. *ursina* and *bifurca*, sp. and subspp. n., Arizona, PILSBRY & FERRISS Proc. Acad. Philadelphia **61** pp. 506 508 & 519 figs.

†*Auricula* (*Pythiopsis*) *brevispira* p. 29 pl. 2 fig. 4, *acutispira* fig. 5, (*Scarizicula*) *quinquecplicata* fig. 6 p. 20, *elongata* p. 31 fig. 7. spp. n., DONCIEUX Ann. Univ. Lyon **22** 1908.

Bulimulus substramineus and varr. *minor* and *turgidula, certi, chinensis*, spp. and varr. n. Tonkin, BAVAY & DAUTZENBERG J. conchyliol. Paris **56** pp. 244–246 1908 and **57** p. 204.

†*Bulimulus* (*Chondrula*) *lorentzi*, sp. n. Pleistozän Ungarn., KORMOS T. Földt. Közl. Budapest **39** pp. 4–5 & 95–96.

Bulimulus bicolumellaris Peru.—*B.* (*Drymaeus*) *expatriatus* Bolivia, *solii* British Guiana.—*Bulimulus* (*Drymaeus*) *interruptus* with var. *pallidus* Venezuela, spp. n., figs., PRESTON Ann. Mag. Nat. Hist. 8 pp. 510–512.

†*B. conophorus* sp. n. Argentina, IHERING An. Mus. Nac. Buenos Aires **10** p. 430 figs.

Bulimus radcliffi sp. n. Abyssinia, NEVILLE & ANTHONY Ann. sci. nat. zool. 8 1908 p. 315 fig.—*B.* (*Leucochroa*) *discoideus* Venezuela.—*B.* (*Thaumastus*) *insculptus* Peru, spp. n., PRESTON Ann. Mag. Nat. Hist. **3** pp. 509–510 figs.

Caecilianella lupensis, praealpina, spp. n., Alps-Maritimes, CAZIOT Paris Bull. soc. zool. **34** p. 101 figs.

Callistoplepa tiara sp. n. Cameroons, PRESTON Ann. Mag. Nat. Hist. **3** p. 183 fig.

Camaena duporti, vayssieri, mirifica, spp. n., Tonkin BAVAY & DAUTZENBERG J. conchyliol. Paris **56** pp. 234–236 1908. —*Camaena* vide etiam *Helix*.

Campylaea (*Cingulifera*) *apfelbecki bindzaensis* subsp. n. Montenegro, WOHLBEREDT Wiss. Mitt. Bosn. Herceg. **11** p. 647.

Carelia pilsbryi sp. n. Hawaiian Islands, SYKES London Proc. Malac. Soc. **8** p. 204 fig.

Cerychium minimum, elongatum var. n. Lancashire, BALDWIN J. Conch. Leeds **12** p. 325.

Cepolinae, subfam. n. *Helicidae*, IHERING Wien. Verh. Zool. Bot. Ges. **59** p. 429.

Chloritis pseudomiara and var. *minor, limatulata* and var. *minor, ausuta, cordieri*, spp. n. and var. n., Tonkin, BAVAY & DANTZENBERG J. conchyliol. Paris **56** pp. 236–238 1908. —*Chloritis* vide etiam *Helix*.

Choanomphalus andrussoviannus incertus, korotnevi spp. n. Lake Baikal pp. 10–13 figs.—*C.* (*Alchoanomphalus* subg. n. p. 13), *amauronius* Bgt. pp. 14–15, var. *aorus* (Bgt.) Dscr. pp. 14–16, *valvatoides* (Dyb) Dscr. p. 17, *eurystomus, patulaeformis, gerstfeldtianus, westerlundianus, subrimatus, dybowskianus, pygmaeus, microtrochus*, spp. n., Lake Baikal, pp. 16–23 figs., LINDHOLM Exped. Baikal See Lfg. **4**.

Clathrorthalicus subg. n., *wallisi* sp. n. Andes, STREBEL Hamburg Jahrb. wiss. Anst. **26** Beih. 2 p. 130 figs.

Clausilia cazioti p. 81 pl. 1 figs. 1 & 2, *demangei* p. 83 fig. 3–4, spp. n., *pavieri* Morlet var. n. *major* p. 84, *minor, comica, pallida, vanbuensis, longa* p. 85, *perplyrostoma* p. 87, *sulla* p. 88 fig. 7–12, spp. n., var. n. *major, minor, monstrosa*, p. *dextrorsum* p. 89, *acrostoma* p. 90 fig. 13–14, *fistulata* p. 92 figs. 15–16 spp. n. var. n. *grisea* p. 93, *circicla* p. 94 figs. 17–18 sp. n. var. n. *stricta* p. 94, *morieri* p. 96 pl. 2 figs. 1–6 sp. n., var. n. *major, monstrosa* sp. n. p. 96, var. n. *lacrigata, minor* p. 97, *aciculata* p. 98 figs. 7–8 sp. n. var. n. *minor* p. 99, *moirati* p. 100 figs. 10–12, sp. n. var. n. *major* p. 100 figs. 13–14, *margaritifera* p. 102 figs. 13–14, *inanis* p. 103 figs. 15–16, *dextrogyra* p. 104 pl. 2 figs. 17–18 spp. n., BAVAY & DAUTZENBERG.

Clausilia medlycotti jonasi var. n. Syria, COOKE London Proc. Malac. Soc. **8** p. 344.—*C. rothschildi*, sp. n. Abyssinia, NEUVILLE & ANTHONY Ann. sci. nat. zool. **8** 1908 p. 306 fig.—*C.* (*Alopia*) *taliformis, durmitoris, C.* (*Triloba*) *tartia, C.* (*Herilla*) *jalucica, oribates, C.* (*Pelima*) *umbilicata* var. *costata*, var. *interior*, var. *brunnea, pseudobinodata, gastrolepta* var. *subinterrupta lovcenica*, (*Agathylla*) *Goldi* subsp. *herminiana* spp. subspp. and varr. n. Montenegro, WOHLBEREDT Wiss. Mitt. Bosn. Herceg. **11** pp. 668–676 680–684.

Cochlostyla worcesteri sp. n., *annulata fugensis* subsp. n. Philippines, BARTSCH Washington U. S. Nation. Mus. Proc. **37** No. 1705 pp. 295–297 figs.

Coptocheilus megregori sp. n. Philippines, BARTSCH T.c. pp. 298–299 fig.—*C. messageri, inermis*, spp. n., Tonkin, BAVAY et DAUTZENBERG J. conchyliol. Paris **56** p. 250 1908.

Corona incisa, machadoensis form. n. Brazil, p. 131 figs., *rosenbergi* sp. n. Loc ? p. 136 figs. *pfeifferi, cincta* form. n. Ecuador, p. 135, figs., STREBEL Hamburg Jahrb. wiss. Anst. **26** Beih. 2.

Carrella citrea sp. n. Ivory Coast, GERMAIN J. conchyliol. Paris **56** p. 103 1908 fig.

Cyathopoma ogdeniana, perconoideum arcanum spp. n. Ceylon, PRESTON Rec. Ind. Mus. **3** pp. 138 & 139.

Cyclophorus implicatus sp. n. Tonkin, BAVAY & DAUTZENBERG J. conchyliol. Paris **56** p. 249 1908.—*C. liratula, C.* (*Theobaldia*) *lilipatiana* Ceylon, spp. n., PRESTON Rec. Ind. Mus. **3** p. 138.

Cyclotoma palyi sp. n. N. W. Africa, PALLARY Feuille jeunes natural. Paris **39** p. 13 figs.—*C. elegans*, notizie biologiche, ANGELO Boll. Acc. Gioenia **1908** fasc. 3–4 pp. 39–46.

Cystopelta gen. n. (Proc. Roy. Soc. Tas., 1880) omitted from any previous Record, Tasmania, PETTERD & HEDLEY Rec. Austr. Mus. **7** p. 292.—*Cystopelta bicolor* sp. n. Mount Range Tas., PETTERD & HEDLEY T.c. p. 293.

Endodonta (*Charopa*) *benhami* Auckland Isds. p. 37 figs., *E.* (*Ptychodon*) *minuta* Campbell Isd., p. 38 fig., **spp. n.**, SUTER Subantarct. Island. New Zealand, *E.* (*Charopa*) *gaza*, *kenepuruensis*, **spp. n.**, *vortex microrhina* **subspp. n.**, pp. 260–261, figs., *E.* (*Ptychodon*) *chiltani* **sp. n.**, p. 260 fig., New Zealand, SUTER London Proc. Malac. Soc. **8**.

*Ennea connolly*i, *euschemon*, Transvaal, pp. 186–188 figs., *eshowensis*, Zululand, p. 187 fig., *callista*, *crispata*, *hypsoma*, *oppugnans*, *parallela*, *perplica*, Cape Colony, pp. 185–190, figs., **spp. n.**, MELVILL & PONSONBY Ann. Mag. Nat. Hist. **4**.—*E. turenni* **sp. n.** Abyssinia, NEUVILLE & ANTHONY Ann. sci. nat. zool. **8** p. 331 fig.—*E.* (*Gulella*) *pallargi* **sp. n.** Assinie, PRESTON Ann. Mag. Nat. Hist. **4** p. 87 fig.

Epiphagmophora anceyana **sp. n.** Argentina, PRESTON Op. cit. **3** p. 508 figs.

Euglandina cymatophora **sp. n.** Mexico, PILSBRY Proc. Acad. Philadelphia **61** p. 544 figs.

Euplecta foveolata S. India, *hockerensis*, *neglecta* Ceylon, **spp. n.**, PRESTON Rec. Ind. Mus. **3** pp. 133–134.

Ferussaccia intermedia **sp. n.** Alpes-Maritimes, CAZIOT Paris Bul. soc. zool. **34** p. 99.

Flammulina costulata, *parva* **subsp. n.** New Zealand, SUTER London Proc. Malac. Soc. **8** p. 259.

Fruticicola lemeri, *costulata* **var. n.** Montenegro, WOHLBEREDT Wiss. Mitt. Bosn. Herceg. **11** p. 630.

Gibbus (*Edentulina*) *carpusa* **sp. n.** Cameroons, PRESTON Ann. Mag. Nat. Hist. **3** p. 180 fig.

Glandina chiachiamiquensis, Peru, *venezuelensis* Venezuela, **spp. n.**, PRESTON T.c. p. 508 fig.

Glessula sinhala **sp. n.** Ceylon, PRESTON Rec. Ind. Mus. **3** p. 135.

Helicarion messeyeri **sp. n.** Tonkin, BAVAY et DAUTZENBERG J. conchyliol. Paris **56** p. 231 1908.

Helicarion russofulgens Zululand, *pavidus* Transvaal, **spp. n.**, MELVILL & PONSONBY Ann. Mag. Nat. Hist. **4** p. 190 fig.—*H. planospirus*, Bugamville, OBERWIMMER Wien Denkschr. Ak. Wiss. **84** p. 515.—*H. subcarnus* **sp. n.** Natal, PRESTON Ann. Mag. Nat. Hist. London **4** p. 198 fig.—*H. latecarnis*, *umbrosolabiata*, **spp. n.** Cameroons, PRESTON Op. cit. **3** p. 181 figs.

Helicellinae **subfam. n.** *Helicidae*, IHERING Wien Verh. Zool. Bot. Ges. **59** p. 429.

Helicinae **subfam. n.** *Helicidae*, IHERING p. 430 T.c.

Helicoglyphinae **subfam. n.** *Helicidae*, IHERING T.c.

Helix vermiculata, *conlata* **var. n.**, p. 175, GERMAIN Voyage Gadeau de Kerville Kroumirie.—*H. carthusiana* **var. n.** *depressa*, *monnieri* **sp. n.**, *carcassiaca* **var. n.** *lingulicrenata*, *sagaca* Bourg. **var. n.** *nicaeensis*, *thuillieri* Mabille **var. n.** *aglensis*, *blanscianna*, *numidiana*, **var. n.** *rubiginosa*, *boussaci* **spp. n.** *crenulata* Mull **var. n.** *colonianensis*, CAZIOT Paris Bul. soc. zool. **34** pp. 88–94 figs.—*H.* (*Cornuella*) *contractiva* **varr. n.** *major*, *minor*, *elata*, **monst. n.** *dextrorsum*, *duperti* **var. n.** *pallidior*, *cupressiva* **var. n.** *minor*, *minima*, *H.* (*Cornuella*) *marinberti* **var. n.** *carenata*, *mesira* **var. n.** *stenocephala*, *pseudosiara* **var. n.** *minor*, *lamatulata* **var. n.** *minor*, (*Eulalia*) *pouzolzi* **varr. n.** *alba*, *rugosa*, *rufula*, *H.* (*Aegista*) *pachkhanensis* **varr. n.** *acuta*, *rufula*, p. 187, *H.* (*Plectotropis*) *subsiliqua* **varr. n.** *major* and *minor*, *albocrenata* **var. n.** *nanerpallida*, *H.* (*Mesodontopsis*) *hortulata*, **var. n.** *crassiperata*, *H.* (*Trochomorphodes*) *acris* **var. n.** *intermedia* and *albina* Indo China, BAVAY & DAUTZENBERG J. Conchyliol. Paris **57** pp. 189–200 figs.—*H.* (*Euparypha*) *chaudoiri* **sp. n.** Equatorial Africa, GERMAIN Bull. Mus. Paris **1903** p. 290, *Helix* (*Helicopsis*) *mesomenon* **sp. n.** Algeria, p. 9, *H.* (*Iberus*) *alonensis* *pseudomonopsis* **var. n.** Almeria, p. 11, KOBELT Rossmässler Icon. Land u. Süsswasser Moll. **15**.—*H.* (*Jacosta*) *gauderi* **sp. n.** Equatorial Africa, GERMAIN Bul. Mus. Paris **1903** p. 291.—*H.* (*Eulalia*) *tridentata* **var. n.** *pardepressa* France, GERMAIN Bull. soc. **26** 1908 p. 90–91.

Helix vide *Cornuella*, *Aegista*, *Cornuella*, *Chilotrema*, *Mesodontopsis* and *Plectotropis*.

Hemiplecta parvulina **sp. n.** Cameroons, PRESTON Ann. Mag. Nat. Hist. **3** p. 180 fig.—*H. pseudotrigonia*, *hecoder*, **spp. n.** Rawaiori, SMITH London Trans. Zool. Soc. **19** p. 46 figs.

Hygromiinae; subfam. n. *Helicidae*. Jhering Wien Verh. Zool. Bot. Ges. 59 p. 428.

Kaliella cruda sp. n. Christmas Island, Smith London Proc. Malac. Soc. 8 p. 371.

Kirkia gen. n. Ruwenzori, Pollonera Sped. Ruwenzori Parte scientifica Vol. 1 1909 pp. 192–193.

Lacorthalicus subgen. n., *reginaeformis* sp. n. Loc ?, Strebel Hamburg Jahrb. wiss. Anst. 26 Beih. 2 p. 180 figs.

Laoma (*Phrixgnathus*) *compressa*, *trailli*, *liratula*, *alfredi*, *fulgurata*, *viridula*, spp. n., New Zealand, Suter London Proc. Malac. Soc. 8 pp. 261–263 figs.—*L.* (*P.*) *cognata* sp. n. Campbell Isd., Suter Subantarct. Isds New Zealand 1 p. 38 fig.

Leptodontarion perakensis sp. n. Perak, Godwin-Austen London Proc. Malac. Soc. 8 p. 365 figs.

Leptopoma freeri sp. n. Philippines, Bartsch Washington U. S. Nation. Mus. Proc. 37 No. 1705 pp. 297–298 figs.—*L. taprobanensis* sp. n. Ceylon, Preston Rec. Ind. Mus. 3 p. 137.

Limax illyricus sp. n. Montenegro, Simroth Wiss. Mitt. Bosn. Herzeg. 11 p. 600.

Limicolaria rectistrigata var. n. *melanomphalus* p. 271, *gestroi* var. and sp. n. Est-Afrique, Germain Bul. Muséum Paris 1909 p. 272 fig. 34.—*L. turriformis*, *ugandensis*, *neumanni elongata*, *roccatii pallida*, *colorata fuscescens*, *saturata brevior*, *martensiana pallidistriga* and *multifida*, *rectistrigata simplicissima* and *simplex*, *pura diluta*, varr. n., Ruwenzori, Pollonera Sped. Ruwenzori Parte scient. 1 pp. 198–201 figs.—*L. chafucuri flammifera* var. n. Abyssinia, Neuville & Anthony Ann. Sci. nat. zool. Paris 8 1908 pp. 297–302 fig.—*L. alluaudi* sp. n. Central Africa, Germain Bul. Mus. Paris 1909 p. 378.

Limnaea africana var. n. *azaouadensis* p. 372, Azouad N. E. of Timbuctoo, Germain T.c. p. 272.—*L. ovata brauni*, *peregra fasciata*, varr. n., Deutschland, Hilbert Königsberg Schr. physik. Ges. 49 pp. 399–400.—*L. ovata petricola* var. n. Baikal See, Lindholm Zool. Exped. Baikal-See Lfg. 4 p. 7.—*L. vignoni*, sp. n. French Soudan, Germain Bul. Mus. Paris 1909 p. 475.—*L. bowelli* sp. n. Tibet, Preston Rec. Ind. Mus. 3 p. 115.—*L. auricularia* var. *intercisa*, var. *lapidaria*, descr. Lake Baikal, Lindholm Zool. Exped. Baikal-See Lfg. 4 pp. 5–7 figs.—*L. truncatula* var. n. *minor* Alpes-Maritimes, Caziot Paris Bul. soc. zool. 34 p. 102 fig.

Macrochlamys rex sp. n. Siam, Preston London Proc. Malac. Soc. 8 p. 202 fig.

Macrocyclis (?) *contempta* sp. n. Tonkin, Bavay et Dautzenberg J. conchyliol. Paris 56 p. 232 1908.

Malacolimax festae, *hierosolymitanus*, Jerusalemme, *depictus* spp. n. Dscherash Brumana, Pollonera Torino Boll. Musei zool. anat. 24 N. 608 pp. 1–8.

Melaniortholicus subgen. n. p. 173, *deliciosus* sp. n. Colombia, Strebel Hamburg Jahrb. wiss. Anst. 26 Beih. 2 p. 178 figs.

Metorthalicus kelletti, *lojanus* form. n. Ecuador, Strebel p. 161 figs. T.c.

Microcystis edithae p. 134, *winifredae* spp. n. *thwaitesi* var. n. *depressa* Ceylon p. 135, Preston Rec. Ind. Mus. 3.

Moellendorffia depressispira, sp. n. Tonkin, Bavay & Dautzenberg J. conchyliol. Paris 56 p. 244 1908.—*Moellendorffia* vide etiam *Helix*.

Myiorthalicus subgen. n., Strebel Hamburg Jahrb. wiss. Anst. 26 Beih. 2 p. 114.

Nanina rothschildi sp. n. Abyssinia, Neuville & Anthony Ann. sci. nat. zool. 8 p. 328 fig.

Natalina lightfootiana sp. n. Cape Colony, Melvill & Ponsonby Ann. Mag. Nat. Hist. 4 p. 490 fig.

Omphalina pittieri sp. n. Guatemala, Bartsch Washington U. S. Nation. Mus. Proc. 37 No. 1707 p. 322 figs.

Oopelta capensis, *minor*, spp. n., Capo di Buona Speranza, Pollonera Torino Boll. Mus. 24 No. 608 pp. 10–13 fig.

Orthalicus powissianus var. n. *niveus* Colombia, Preston Ann. Mag. Nat. Hist. 3 p. 512.—*O. sultana micobambensis carnea* var. n. Peru, Strebel Hamburg Jahrb. wiss. Anst. 26 Beih. 2 p. 149 fig.

Oxyorthalicus subgen. n., Strebel, p. 117 T.c.

Pachytholus subgen. n., STREBEL p. 138, *pseudoiostomus* sp. n. Chile, p. 139 figs., STREBEL T.c.

Palaina pagodula sp. n. Tonkin, BAVAY et DAUTZENBERG J. conchyliol. Paris **56** p. 250 1908.

Papuina chancei subsp. n. *rechingeri* Insel Bugainville, OBERWIMMER Wien Denkschr. Ak. Wiss. **84** p. 515.

Phenacohelix (?) *subantarctica* sp. n. Campbell Isd., SUTER Subantarct. Islds. New Zealand **1** p. 36 figs.

Planorbis gardei sp. n. French Soudan, GERMAIN Bull. Mus. Paris **1909** p. 475. —*P. stewarti* sp. n. Tibet, p. 199, fig., *P. barrakporensis*, *himalayensis*, *suigonensis*, Tibet, pp. 117–120, GERMAIN Rec. Ind. Mus. **3**.—*P. pucaraensis* sp. n. Peru, PRESTON Ann. Mag. Nat. Hist. **3** p. 512 fig.—*P.* (*Gyraulus*) *rugulosus* sp. n. Baikal-See, LINDHOLM Zool. Exped. Baikal-See Lfg. **4** p. 25.

Plectopylis mansuyi, *infralevis*, *suprafilaris*, *soror*, spp. n., Tonkin, GUDE J. conchyliol. Paris **55** pp. 248–257 1907. —*P. messageri*, *verecunda*, *gouldingi*, *anteridcs*, *fallax* and var. *major*, *crytochila*, spp. and var. n. Tonkin, GUDE London Proc. Malac. Soc. **8** pp. 213–218 figs.

Plectotropis pseudotrochula, *gitana*, *cydaea*, *dasytrichia*, *couturieri*, *albocrenata* and var. *minor-pallida*, spp. and var. n., Tonkin. pp. 239–242, *P.* ? *chaudroni*, sp. n. Tonkin, p. 242, BAVAY & DAUTZENBERG J. conchyliol. Paris **56**.—*Plectotropis* vide etiam *Helix*.

Pleuracme gracillima sp. n. Germany, EHRMANN Leipzig SitzBer. natf. Ges. **35** p. 51.

Polygyra matermontana jaliscensis, *guadalajarensis*, subsp. and sp. n., Mexico, PILSBRY Proc. Acad. Philadelphia **61** p. 541 figs.

†*Pomatias harmeri* sp. n. Pliocene Essex, KENNARD London Proc. Malac. Soc. **8** p. 316 figs.

Prosopeas excellens, *ventrosum*, spp. n., Tonkin, BAVAY et DAUTZENBERG J conchyliol. Paris **56** pp. 247–248 1908.

Pseudachatina nodosa, sp. n. and var. n. *eminens* Cameroons, PRESTON Ann. Mag. Nat. Hist. **3** p. 183 fig.

Pseudancylastrum subgen. n. zu *Ancylus*, LINDHOLM Zool. Exped. Baikal-See Lfg. **4** p. 26.

Pseudoglessula camerunensis sp. n. Cameroons, PRESTON Ann. Mag. Nat. Hist. **3** p. 185. fig.—*P. fischeri*, sp. n. Côte d'Ivoire, GERMAIN J. conchyliol. Paris **56** p. 107 1908.

Pseudotrochus batesi, *efulenensis*, spp. n. Cameroons, PRESTON Ann. Mag. Nat. Hist. **3** pp. 184 & 185 figs.

Pterocyclus fruhstorferi, *moellendorffi*, Tongking und Nova Guinea, spp. n., KOBELT Frankfurt a. M. NachrBl. D. malakozool. Ges. **41** pp. 82–83.—*P. prestoni* and var. *depicta* sp. and var. n., Tonkin, BAVAY et DAUTZENBERG J. conchyliol. Paris **56** pp. 248–249 1908.

†*Pupa vouastensis* sp. n., Montjavoult (Oise), RASPAIL Feuille jeunes natural. **39** p. 201 pl. 4 fig. 20.

Serpho mathewsi sp. n. New Zealand, SUTER London Proc. Malac. Soc. **8** p. 259 fig.

Sitala elatior sp. n. Tonkin, BAVAY et DAUTZENBERG J. conchyliol. Paris **56** p. 232 1908.—*S.* (?) *Gunongensis* sp. n. Perak, GODWIN-AUSTEN London Proc. Malac. Soc. **8** p. 367 figs.

Solaropsis venezuelensis sp. n. Venezuela, PRESTON Ann. Mag. Nat. Hist. **3** p. 508 fig.

Sonorella rinconensis sp. n. Arizona, PILSBY & FERRISS Proc. Acad. Philadelphia **61** p. 517 figs.

Stenogyra rothschildi sp. n. Abyssinia NEUVILLE & ANTHONY Ann. sci. nat. zool. **8** 1908 p. 302 fig.

Streptaxis messageri, *daedalus*, *oppidulus*, spp. n., *messageri minor*, *daedalus major*, varr. n., Tonkin, BAVAY & DAUTZENBERG J. Conchyliol. Paris **56** pp. 229–231 1908.

Streptostyla supracostata, *minuta*, spp. n., Mexico, PILSBY Proc. Acad. Philadelphia **61** pp. 544 & 545 figs.

Subulina pietermaritzburgensis TRANSVAAL fig., *culmoides* Natal p. 490 fig., *jaensis* Cameroons p. 186 fig. spp. n., PRESTON Ann. Mag. Nat. Hist. **3**

Succinea lanzannei sp. n. French Soudan, GERMAIN Bul. Mus. Paris 1909 p. 471.—*S. panucoensis* sp. n. Mexico, PILSBRY Proc. Acad. Philadelphia **61** p. 546 fig.

Systenostoma pulverea, pauperrima, spp. n., Tonkin, BAVAY & DAUTZENBERG J. Conchyliol. Paris **56** pp. 243–244 1908.

Trochocampylaea tachomides sp. n. Isola di Capraia, POLLONERA Torino Boll. Mus. zool. **24** N. 608 p. 15 tav.

Thapsia roseuberai sp. n. Cameroons. PRESTON Ann. Mag. Nat. Hist. **3** p. 181 fig.

Therasia antipoda chathamensis subsp. n. New Zealand, SUTER London Proc. Malac. Soc. **8** p. 259 fig.

Thermia (?) *expeditionis* sp. n. Auckland Isds., SUTER Subantarct. Isds. New Zealand **1** p. 34 figs.

Tholus gen. n., STREBEL Hamburg Jahrb. wiss. Anst. **26** Beih. 2 p. 137.

Thysanota elegans sp. n. Ceylon, PRESTON Rec. Ind. Mus. **3** p. 135.

Tornatellina subperforata sp. n. New Zealand, SUTER London Proc. Malac. Soc. **8** p. 263 fig.

Tortaris elongatissimus sp. n. Tonkin, BAVAY et DAUTZENBERG J. conchyliol. Paris **56** p. 247 1908.

Trachycystis ? *ruwenzoriensis* sp. n. Ruwenzori, SMITH London Trans. Zool. Soc. **19** p. 44 figs.—*T. connolly* sp. n. Cape Colony, MELVILL & PONSONBY Ann. Mag. Nat. Hist. **4** p. 491 fig.

Trachyorthalicus subgen. n. p. 151, *T. fraseri perplexus* form. n. Loc ? p. 155 figs., STREBEL Hamburg Jahrb. wiss. Anst. **26** Beih. 2.

Trochomorpha latior, albofilosa, spp. n. Tonkin, BAVAY et DAUTZENBERG, J. conchyliol. Paris **56** p. 233 1908.

Trochozonites tepualeus sp. n. Ruwenzori, SMITH London Trans. Zool. Soc. **19** p. 43 fig.

Vallonia astoma sp. n. Montenegro, WOHLBEREDT Wiss. Mitt. Bosn. Herzeg. **11** p. 629.

Vitrina major brachiata var. n. Spain, MARCET Zaragoza Bol. Soc. Arag. **8** p. 139.

Zebra maculiferus, pilsbryi. spp. n. Costa Rica pp. 30 & 46 figs., *delphinus nebulosus* form. n. *pumilio* Mazatlan pp. 33–34 figs., *Z. vexans* sp. n. Trinidad. p. 56 figs., *Z. delphinus* form. n. *nebulosus* and *intermedius* Mazatlan pp. 31–34 figs., *delphinus, pseudo-longus,* spp. n. Loc. ? pp. 30–31 & 71 figs., *delphinus,* sp. n. form *nebulosus* form. n. Loc ? pp. 30–32 figs., *richardsoni, nobilis* form *pallida, quagga* and form *turrita, livens* form *aberrans, tepicensis* and form *rollei, mulleri, hackeri, zoniferus* form *major,* form *euchrous,* form *naesiotes, miles, sphinx,* and forms *latestriata, zonata* and *turrita,* spp. and form. n. Mexico pp. 36 40–42 43 45–46 50 52–56 64–68 figs., *grunieri, obductus* form *gracilis* sp. and form n. Venezuela pp. 63 78 figs., *crossei-fischeri, selectus* spp. n. Guatemala, pp. 27 37 figs., STREBEL Hamburg Jahrb. wiss. Anst. **26** Beih. 2.

Zingis roseuberai sp. n. Transvaal, PRESTON Ann. Mag. Nat. Hist. London **4** p. 498 fig.—*Z. thermarum* sp. n. Transvaal. MELVILL & PONSONBY Ann. Mag. Nat. Hist. **4** p. 491 fig.

Zonites spinellii sp. n., *algirus* L. var. n. *garganica* Italy, POLLONERA Torino Boll. Mus. zool. **24** N. 608 p. 13.

Zonitoides candidus, montenegrinus, spp. n., Montenegro, WOHLBEREDT Wiss. Mitt. Bosn. Herzeg. **11** pp. 626 627 fig.

Zua collina Drouet var. n. *subcontricosa* Alpes-Maritimes. CAZIOT Paris Bul. soc. zool. **34** p. 99 fig.

SCAPHOPODA.

Cadulus subtilis sp. n. E. Africa, PLATE Tiefsee Exped. **9** Lfg. 3 1908 p. 360 fig.

Dentalium chuni, zanzibarense, siberutense, East Africa (1908) pp. 341 & 348 figs., *agulhasense* S. Africa p. 349 figs., *congoense* W. Africa p. 349 figs. spp. n., PLATE T.c.—*D. gemmiparum* Chagos Archipelago fig., *D. gardineri* Amirantes, spp. n., MELVILL London Trans. Lin. Soc. **13** p. 120 fig.—*D.* (*Antalis*) *valdiviae* North Atlantic p. 355 figs., *D.* (*Compressidens*) *comprimatum* Zanzibar Channel p. 349 figs., *sumatrense* West Sumatra p. 350, *D.*

(*Episiphon*) *gazellae* North West Australia p. 356 figs., *D.* (*Graptarme*) *acuticostatum* East Africa p. 252 fig., *D.* (*Lucidentalium*) *balaenodes* West Sumatra p. 356 figs., *D.* (*Plagioglypta*) *pertracheotum* Nias-North Channel p. 357 figs., *curvotracheatum* Zanzibar Channel p. 358 fig. spp. n., PLATE D. Tiefsee Exped. Lfg. 3 1908.

†*D. applanatum* sp. n. Lerlohn Devonian, TORLEY Berlin Arb. geol. Landesanst. 53 1908 p. 43. *D. conradi* nom. n. *Teredo substriatum* Conrad, *petricola* nom. n. *Teredo substriatum* Conrad ex parte, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 136.

LAMELLIBRANCHIA.

†*Allorisma concinna* sp. n. Cornwall Devonian, THOMAS Geol. Mag. London 6 p. 100 figs.

†*Angustella* subgen. n. ex aff. gen. *Gervillia*, pp. 98 & 170, *angulata* nom. n. für *Gervillia angulata* Münst. p. 98, WAAGEN Wien Abh. Geol. RchsAnst. 18 Heft 2 1907.

†*Anisocardia alta* sp. n., Jura, KRAUSE Berlin Jahrb. geol. 29 p. 271 fig.—*A. gramdis exporrecta, elotior*, spp. n., Jura, KRAUSE T.c. pp. 318–321 figs.

†*Anisodonta saucatsensis, dauvergieri, dumasi*, spp. n. France Cainozoic, COSSMANN & PEYROT Bordeaux Acte soc. linn. 63 pp. 212–215 figs.

Anodanta complanata jijiana var. n. Jijia River, NICODIM Ann. Univ. Jassy 6 p. 45.

†*Anomia dense striata, discus, inflata* spp. n. Jura, KRAUSE Berlin Jahrb. geol. Landesanst. 29 p. 258 figs.

†*Anoplophora weissenbachensis* sp. n. Nied. Oest. Triassic, TOULA Wien Jahrb. Geol. RchsAnst. 59 p. 394.

Arca siamensis sp. n. Siam LYNGE Kobenhavn Vid. Selsk. Skr. 5 p. 114 figs.—*A.* (*Anadara*) *mortensieni* sp. n. Siam, LYNGE T.c. p. 120 figs.

†*A. montensis* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique 5 1908 p. 62 figs.

Arcopagia dapsilis sp. n. Hope Is., HEDLEY Sydney Proc. Linn. Soc. 34 p. 434 fig.

†*Arcopecten gibbosula, lithodomoides*, spp. n., Belgium Tertiary, COSSMANN Mem. Mus. Belgique 5 1908 pp. 67–68 figs.

†*Arcoptera impressa* sp. n. South Tyrol Triassic, WILCKENS Heidelberg Verh. Nathist. Ver. N. F. 10 p. 161 figs.—*A. schlosseri* sp. n. Seiser Alm Trias, WAAGEN Wien Abh. Geol. RchsAnst. 18 Heft 2 1907 p. 102.

†*Astarte balmensis*, sp. n. France Jurassic, COSSMANN Paris C. R. acad. franç. avanc. sci. 36 1908 p. 302 fig.

†*Aucella landstroemi, russiensis, gabbi, lahusenii, fischeriana, volgensis, akensis* Mangyschlak, descr., SOKOLOV St. Petersburg Trd. geol. Muz. Akad. Nauk. 2 1908 pp. 62–67 figs.—*A. pompeckji* Oxford, *lamberti, callovensis* spp. n. Kelloway near Orenburg, SOKOLOV St. Petersburg Bull. Com. géol. 27 1908 pp. 383–390 figs.—*A. tschernyschewi, volongensis, syriaca* spp. n., Timan pp. 12–14 19 & 28–29 figs., *A. landstroemi* p. 11 28 pl. i f. 16 sp. n. pp. 11 & 28 SOKOLOV Spitzbergen St. Petersburg Mem. Com. geol. 36 1908.

†*Aucellina aptensis, caucasica, arthuli, pompeckji* spp. n. *gryphaeoides* 76–79 pl. v f. 7 8 figured, described (All from Mangyschlak), SOKOLOV St. Petersburg Trd. geol. Muz. Akad. Nauk 2 1908 p. 70 73–79 figs.—*A. sarsibouri, pavlowi*, spp. n. Trans Caspia, SOKOLOV pp. 75–76 T.c.

†*Avicula weissenbachensis* sp. n. Nied. Oest. Trias, TOULA Wien Jahrb. Geol. RchsAnst. 59 p. 389.—*A.* [illegible] sp. n. South Tyrol Triassic p. 122 fig. *wohrmanni* nom. n. for *A. frechi* Bittner p. 120, WILCKENS Heidelberg Verh. Nathist. Ver. N. F. 10.—*A. remiportensis, tenuis*, spp. n., Heidelberg Jura, KRAUSE Berlin Jahrb. geol. Landesanst. 29 pp. 249–251 figs.

†*Avicula pecten* (*Oxypteria*) [illegible] *bittneri* sp. n. Seiser Alm. WAAGEN Wien Abh. Geol. RchsAnst. 18 Heft 2 1907 p. 93.—*A.* [illegible] sp. n. South Tyrol Triassic, WILCKENS Heidelberg Verh. Nathist. Ver. N. F. 10 p. 128 figs.—*A. calpini* sp. n. Yorkshire Coalfield, HIND Yorks. Proc. Geol. Polyt. Soc. 1908 p. 335 figs.

†*Badiotella brolli*, *B.* (*Lima*) *semiradiata* spp. n. South Tyrol Triassic, WILCKENS Heidelberg Verh. Nathist. Ver. N. 7 **10** pp. 205–206 figs.

†*Bichotia* (*Acar*) *scaberrima* p. 71 figs., *B. rutoti* p. 63 figs. spp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908.

†*Basterotia bidi*, *B.* (*Fulvella*) *neurallei*, spp. n. France Cainozoic, COSSMANN & PEYROT Bordeaux Actes soc. linn. **63** pp. 208–209 figs.—*B. fallaciosa* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 73 figs.

†*Buchiola ferruginea* Holzapf. var. n. *polonica* Mitteldevon von Polen, SOBOLEW Mater. geol. Russ. **24** p. 435 fig.

Calliste amirantium sp. n. Amirantes, MELVILL London Trans. Lin. Soc. **13** p. 132 fig.

†*Cardinia crassiuscula* var. *minor*, *astartoides* var. and sp. n. Niedl-Oesterreich, TRAUTH Wien Beitr. Pal. Geol. Ost-Ung. **22** pp. 109–110.—*C. anthelmi*, *dormeli*, *zeiller*, *flichei*, *lerichei*, spp. n., Belgium Jurassic, JOLY Mem. Mus. Belgique **5** 1907 pp. 95–99 figs.

Cardita cooperi sp. n. Saya de Malha Banks, MELVILL London Trans. Lin. Soc. **13** p. 130 fig.

†*C. dimorpha* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 55 figs.—*C. reginae* sp. n. Ostbosnien, OPPENHEIM Wien Jahrb. Geol. Reichsanst. **58** 1908 p. 329 figs.

Cardotella parella, *palchella*, spp. n., Siam, LYNGE Kobenhavn Vid. Selsk. Skr. **5** p. 164 figs.

Cardium exiguum, *Ovata pauricostatum impedita*, varr. n. Schwarzes Meer, MILASCEWICZ Ann. Mus. zool. St. Petersburg **14** pp. 156 & 164.—*C.* (*Fragum*) *crassilodes*, *rostalum*, spp. n., Carpathes, Carajes, MELVILL London Trans. Lin. Soc. **13** p. 134 fig.

†*C.* (*Ceratoderma*) *coosense* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** p. 118 figs.—*C.* (*Laevicardium*) *dalli* sp. n. Panama Jungtertiär, TOULA Wien Jahrb. Geol. Reichsanst. **58** p. 722.—*C.* (*Laevicardium*) *triatis*, *C.* (*Plagiocardium*) *laundeta*, spp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 pp. 43 & 44 figs.—*C.* (*Trachycardium*) *gatunense* sp. n. Panama Jungtertiär, TOULA Wien Jahrb. Geol. Reichsanst. **58** p. 720.

†*Cassianella transiens*, *compressa*, spp. n., South Tyrol Triassic, WILCKENS Heidelberg Verh. Nathist. Ver. N. 7 **10** pp. 124 & 198 figs.—*C. dieneri* sp. n. Seiser Alm Trias, WAAGEN Wien Abh. Geol. Reichsanst. **18** Heft 2 1907 p. 87.

†*Ceromya madagascariensis* sp. n. Madagascar, THÉVENIN Ann. paléont. Paris **3** 1908 pp. 132–133.

†*Chama ancestralis* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 44 figs.

Chione scandularis, sp. n. Hope Is., HEDLEY Sydney Proc. Linn. Soc. **34** p. 431 figs.—*C.* (*Timoclea*) *Siamensis* sp. n. Siam, LYNGE Kobenhavn Vid. Selsk. Skr. **5** p. 244 figs.

†*C. bisculpta* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** p. 121 figs.

Chlamys corymbiatus sp. n. Hope Isds., HEDLEY Sydney Proc. Linn. Soc. **34** p. 423 fig.

Circe Melvilli sp. n. Siam, LYNGE Kobenhavn Vid. Selsk. Skr. **5** p. 231 figs.

†*Clathrolima* gen. n., *lalmenti* sp. n. France Jurassic, COSSMANN Paris C. R. ass. franç. avanc. sci. **36** 1908 p. 296 fig.

†*Cochlodesma* (*Bentaea*) *benoisti* sp. n. France Cainozoic, COSSMANN & PEYROT Bordeaux Actes soc. linn. **63** p. 121 figs.

†*Congeria frici* sp. n. Bosnia Tertiary, BRUSINA Wiss. Mitt. Bosn. Hercog. **11** p. 576 figs.

†*Conocardium excavatum* sp. n. Iserlohn Devonian, TORLEY Berlin A. b. geol. Landesanst **53** 1908 p. 40.

Corbicula andouini, sp. n. French Soudan, GERMAIN Bul. Mus. Paris 1909 p. 176.—*C. gabonensis* sp. n. Gabon, PRESTON Ann. Mag. Nat. Hist. 4 p. 90 fig.

†*Cordula crassicrenata* sp. n. France Jurassic, COSSMANN Paris C. R. ass.

franç. avanc. sci. **36** 1908 p. 304 figs.—*C. montensis, transversaria, rutoli*, spp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 pp. 32–34 figs.

Corbula lineata, arcaeformis SIAM, pp. 267 & 268 figs., *C.* (?) *marabilis* spp. n., Siam p. 271 figs., LYNGE Kobenhavn. Vid. Selsk. Skr. **5**.

†*C. revoluta* Brocchi mut. *ardennensis, raulini peyrehoradensis*, mut. and spp. n., France Cainozoic, COSSMANN & PEYROT Bordeaux Actes soc. linn. **63** pp. 172–175 figs.—*C. montensis, kaneni*, spp. n., Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 pp. 25 & 26 figs.—*C. gatunensis* sp. n. Panama Jungtertiär, TOULA Wien Jahrb. Geol. Reichsanst. **58** p. 733.—*C.* (*Agina*) *leferrei* p. 76 figs., *C.* (*Cuneocorbula*) *semirugata* p. 27 figs. spp. n., Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908.

†*Crassatella montensis, excelsa*, spp. n., Belgium Tertiary, COSSMANN T.c. pp. 48–51 figs.

†*Crenella oblonga* sp. n. Belgium Tertiary, COSSMANN T.c. p. 68 figs.

†*Cryptomya oregonensis* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** p. 132 fig.

†*Ctenodonta auburnensis, costata*, spp. n., Missouri Ordovician, BRANSON St. Louis Trans. Acad. **18** p. 40 figs.

†*Cucullaea woodsi* sp. n. Zululand Cretaceous, NEWTON Trans. R. Soc. South Africa **1** p. 31 fig.

Cuna precalva, capillata, spp. n., Hope Is., HEDLEY Sydney Proc. Linn. Soc. **34** pp. 424–425 figs.

†*Cuspidaria* (*Lomaya*) *dumont* sp. n. France Cainozoic, COSSMANN & PEYROT Bordeaux Actes soc. linn. **63** p. 167 figs.

†*Cypricardia* (?) *fassanensis* sp. n. South Tyrol Trias, WITCENS Heidelberg Verh. Naturh. Ver. N. F. **10** p. 162 fig.

†*Cyrena* (*Velorita*) *parki* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 34 figs.

†*Carudaria recordii* sp. n. France Cainozoic, COSSMANN & PEYROT Bordeaux Actes soc. linn. **63** p. 199 figs.

†*Cytherea astartoides* sp. n. Madagascar, THÉVENIN Ann. paleont. Paris **3** 1908 p. 131.

†*Diplodonta squamatocostata*, pp. 36 & 37 figs., *D.* (*Felaniella*) *vincenti* p. 37 figs., spp. n., Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908.

Donax vexatus var. n. *pallida* Schwarzes Meer, MILASZEVICZ Ann. Mus. zool. St. Petersburg **14** p. 317.

†*D. lusai* sp. n. Portugal Tertiary, DOLLFUS & COTTER Lisboa Com. Trab. Geol. Mem. **1909** p. 27.

Dosinia exilissima sp. n. Sarawak, SOWERBY Proc. Malac. Soc. London **8** p. 200 fig.

†*D. wahlenbergi* nom. n. MERIAN, IHERING Ann. Mus. Nac. Buenos Aires **12** p. 33.

Drobisia bourguignati TRAUSCHOLD, Bachrichten (Russ.), Studency Moskva Tsl Kruž. izsl. russ. prir. **4** p. 61.

Dryadomya bassomatis Congo, *ad. bassus* Aurich spp. n., PAUL Ann. Mag. Nat. Hist. **4** pp. 88 & 89 figs.—*D. palmarophila* var. *tortuosa* (Lam.) Andrusoff Schwarzes Meer, MILASZEWICZ Ann. Mus. zool. St. Petersburg **14** p. 151.

†*Edmondia* gen. n., ex aff. *Cyrvillina* sub. part. *Edmondia* sp. n. Sasser Mus. Trans. WAAGEN Wien Akad. Geol. Reichsanst. **18** H. 2 1907 pp. 96 & 97.

†*Ensis dumonti* sp. n. France Cainozoic, COSSMANN & PEYROT Bordeaux Actes soc. linn. **63** p. 225 fig.

Erycina cassidi, sp. n. Côte Atlantique (Français), LAMY J. conchyliol. Paris **56** pp. 35–37 1908 fig.

†*E. brunni* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 47 figs.

†*Eucypris ovum* sp. n. Heidelberg Jura, KRAUSE Paläont. Jahrb. pour Landesanst. **29** p. 217 fig.—*E. [illegible]* sp. n. Kreide von Sarepta, LENDENFELD Ann. mus. univ. Novo Aleksandrija **11** pp. 130–134 fig.

Fischeria messageri, approximans, Senegal River, pp. 186 & 187 figs., *globosa* Congo **spp. n.**, p. 91 fig. PRESTON Ann. Mag. Nat. Hist. **4**.

†*Fossularca kameni* **sp. n.** Belgium Tertiary, COSSMANN Mem. Mus. Belgique. **5** 1908 p. 64 figs.

Galatea rubrotincta **sp. n.** Congo, PRESTON Ann. Mag. Nat. Hist. **4** p. 90 fig.

Gafrarium catillus **sp. n.** Hope Is., HEDLEY Sydney Proc. Linn. Soc. **34** p. 430 figs.

†*Gastrochaena neuvillei* **sp. n.** France Cainozoic, COSSMANN & PEYROT Bordeaux Actes soc. linn. **63** p. 154 figs.—*G. corneti* **sp. n.** Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 10 figs.

†*Gervillia* (*Perna Odontoperna* ?) *bouei weissenbachensis* **var. n.** Lower Austria Triassic, TOULA Wien. Jahrb. Geol. RchsAnst. **59** p. 390.—*Gervillia subalpina* **sp. n.** Niederösterreich, TRAUTH Wien Beitr. Pal. Geol. OestUng. **22** pp. 81–82.—*G. metzertensis* **sp. n.** Belgium Jurassic, JOLY Mem. Mus. Belgique **5** 1907 p. 79 figs.

†*Gervillella* **gen. n.** ex aff. gen. *Gervillia* part, WAAGEN Wien Abh. Geol. RchsAnst. **18** 1907 pp. 171.

†*Glycimeris longior puelchensis* **sub. sp. n.** Argentina, IHERING An. Mus. Nac. Buenos Aires **10** p. 434. *G. grewingki cauraci, gabbi,* **sp. n.**, Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** pp. 107 & 108 figs.—*G. mayeri* **nom. n.** for *Panopaea rediviva* Mayer, COSSMANN & PEYROT Bordeaux Actes soc. linn. **63** p. 191 fig.—*G. mandibula* Turon der Bucharei, BESCHREIBUNG (Russ.), KLER St. Petersburg Trd. geol. Muz. Ak. nauk. **2** p. 172 pl. viii.—*G. griesbachi* **sp. n.** Zululand Cretaceous, NEWTON Trans. R. Soc. South Africa **1** p. 36 fig.

†*Gobraeus* (*Psammobaena*) *dupondi* **sp. n.** Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 31 fig.

†*Gonodon mellingi minimus* **var. n.** Niel. Oest. Trias, TOULA Wien Jahrb. Geol. RchsAnst. **59** p. 397.

†*Gresslya cuectica, petersi,* **spp. n.**, Nieder Oesterreich, TRAUTH Wien Beitr. Pal. Geol. OestUng. **22** pp. 117 & 118.

†*Gryphaea geyeri* **sp. n.** Niederösterreich, TRAUTH p. 96 T.c.—*Gryphaea* vide etiam *Ostrea*.

†*Heminajas wöhrmanni* and var. *neumayri* and *broilii, geyeri* and var. *lata,* **spp.** and **varr. n.**, Seiser Alm. Trias., WAAGEN Wien Abh. Géol. RchsAnst. **18** H. 2 1907 pp. 42–48.

†*Hoferia ? marianii* **sp. n.** South Tyrol Triassic, WILCKENS Heidelberg Verh. Nathist. Ver. N. **7** **10** p. 156 figs.

†*Inoceramus balli* **sp. n.** Nubia Sandstone, NEWTON Geol. Mag. London **6** p. 392.—*I. choffati* Zululand Cretaceous, NEWTON Trans. R. Soc. South Africa **1** p. 45 figs.—*I. ornatus* **sp. n.** Kreide von Saratov, LUNGERHAUSEN Ann. géol. minér. Novo Aleksandrija **11** p. 130 fig.

†*Joannina* **gen. n.** ex fam. *Myalinidae joannae* **sp. n.** Seiser Alm. Trias, WAAGEN Wien Abh. Geol. RchsAnst. **18** H. 2 1907 p. 94.

Kellia compressa **sp. n.** Schwarzen Meer, MILASCEWICZ Ann. Mus. zool. St. Petersburg **14** pp. 154–155.—*Kellya lineata, vitrina, rosea, elongata, lilium,* **spp. n.**, Siam, LYNGE Köbenhavn Vid Selsk. Skr. **5** pp. 176–180 figs.

Lampsilis moctezumensis, semirasa undiraga, noviconis, coyensis, signata, metallica ganina, **spp.** and **subsp. n.**, Mexico, PILSBRY Proc. Acad. Philad. **61** pp. 531 & 536–539 figs.

†*Leda whitmani* **sp. n.** Oregon Miocene DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** p. 103 fig.—*L. champhidium* **sp. n.** Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 60 figs.

†*Leptodesma wupperana* **sp. n.** Elberfelder Devon, SCHMIDT Elberfeld. Jahresber. natw. ver. **12** p. 55.

†*Leptodomus simplex* **sp. n.** Elberfelder Devon., SCHMIDT p. 55 T.c.

†*Lima pireti* **sp. n.** Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 69 figs.—*L. alaeformis,* KRAUSE p. 253 fig., *clathrata* p. 295 fig., **spp. n.**, Heidelberg Jura, KRAUSE Berlin Jahrb. geol. Landesanst. **29**.—*L.* (*Acesta*) *montensis*.—*L.* (*Limatula*) *hexagonalis,* **spp. n.** Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 pp. 70–72

figs.—*L.* (*Limatula*) *praedispersa* sp. n. Heilsberg Jura, KRAUSE Berlin Jahrb. Geol. Landesanst. 29 p. 314 fig.—*L.* (*Plagiostoma*) *colcanapi* sp. n. Madagascar, THÉVENIN Ann. paléont. Paris 1908 3 p. 126 figs.

Limatula hyperborea sp. n. East Greenland, JENSEN Kobenhavn Medd. Grönl. Hefte 29 p. 329 figs.

†*Limatula rauracica* sp. n. France Jurassic, COSSMANN Paris C. R. ass. franç. avanc. sci. 36 1908 p. 295 figs.

†*Limea nucleus* sp. n. France Jurassic, COSSMANN Paris C. R. ass. franç. avanc. sci. 36 1908 p. 295. figs.

†*Limopsis minuscula* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique 5 1908 p. 60 figs.

†*Lithodomus iris* sp. n. France Jurassic, COSSMANN Paris C. R. ass. franç. avanc. sci. 36 1908 p. 299 figs.

†*Lithophaga mannanensis* sp. n. Zululand Cretaceous, NEWTON Trans. R. Soc. South Africa 1 p. 43 figs.

Litigiella gen. n. type *Lepton glabrum* Fischer 1873 = *Erycina cumoti* Lamy 1908, MONTEROSATO J. conchyliol. Paris 56 p. 254.

Lucina (*Phacoides*) *dalli*, *pulchella*, spp. n., Siam, LYNGE Köbenhavn Vid. Selsk. Skr. 5 pp. 171 & 173 figs.

†*L. scaphoidea* sp. n. Heilsberg Jura, KRAUSE Berlin Jahrb. geol. Landesanst. 29 p. 269 figs.

†*Macoma astori*, *molinana*, spp. n., Oregon Oligocene ?, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 128 figs.—*M.* (*Tellina*) *gatunensis* sp. n. Panama Jungtertiär, TOULA Wien Jahrb. Geol. ReichsAnst. 58 p. 729.

†*Mactra rupert-jonesi* sp. n. Zululand Cretaceous, NEWTON Trans. R. Soc. South Africa 1 p. 71 figs.—*M. steinmanni* nom. n. Magellanian, IHERING An. Mus. Nac. Buenos Aires 12 p. 36.

Macrocallista nom. n. Section *Paradione* = *Chionella* Cossmann, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 120.

†*Macrodon scaber* sp. n. Seiser Alm Trias, WAAGEN Wien Abh. Geol. ReichsAnst. 18 Heft 2 1907 p. 99.

• †*Martesia belleradei* sp. n. France Cénozoic, COSSMANN & PEYROT Bordeaux Actes soc. linn. 63 p. 137 fig.—*M. rutoti* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique 5 1908 p. 11 fig.

†*Meretrix* (*Pitaria*) *duponti*, *rutoti*, *piretti*, spp. n., Belgium Tertiary, COSSMANN Mem. Mus. Belgique 5 1908 pp. 39–42 fig.

†*Miodon semen* sp. n. Belgium Tertiary, COSSMANN T.c. p. 56 figs.

Modiola granoclarata sp. n. Manila, SOWERBY Proc. Malac. Soc. London 8 p. 201 fig.—*M. cochinensis* sp. n. S. India, PRESTON Rec. Ind. Mus. 3 p. 278.

†*M. bernreuthensis* sp. n. Bernreuth Nied.-Oesterreich, TRAUTH Wien Beitr. Pal. Geol. Oest.-Ung. 22 pp. 101–102.—*M.* (*Mytilus* ?) *weissenbachensis* sp. n. Nied. Oest., TOULA Wien Jahrb. Geol. ReichsAnst 59 p. 392.—*Modiola* vide etiam *Modiolus*.

†*Modiolus inflatus*, *directus*, spp. n., Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 pp. 113–114 figs.—*Modiolus* vide etiam *Modiola*.

†*Modiolaria* (*Pleurodiola*) *vincenti* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique Bruxelles 5 1908 p. 66 figs.

†*Modiolodon subrhomboidalis* sp. n. Missouri Ordovician, BRANSON Trans. Acad. St. Louis 18 p. 41 figs.

†*Modiolopsis expansa* sp. n. Missouri Ordovician, BRANSON T.c. p. 42 figs.

†*Modiomorpha waldschmidti* sp. n. Elberfeld Devonian, SCHMIDT Elberfeld Jahresber. Natw. Ver. 12 p. 52.

Mortacuta costata, *conuata*, *variabilis*, *rudis*, spp. n. Siam, LYNGE Köbenhavn Vid. Selsk. Skr. 5 pp. 181–184 figs.

†*Mulvania oregonensis* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 132 figs.

Musela lhotellerieana sp. n. Galapagos, PRESTON Ann. Mag. Nat. Hist. 4 p. 89 fig.

†*M. myoctopoides* sp. n. Nubia Sandstone, NEWTON Geol. Mag. London 6 p. 391.

Mutelina mabilli gaillardi var. n. French Soudan, GERMAIN Bul. Mus. Paris 1909 p. 477.

Myoctopus punctatus sp. n. Columbia, PRESTON Ann. Mag. Nat. Hist. 3 p. 513 fig.

†*Myoconcha broilli, wöhrmanni*, spp. n., Seiser Alm Trias., WAAGEN Wien Abh. Geol. RchsAnst. 18 H. 2 1907 pp. 78–80.—*M. weissenbachensis* sp. n. Nied. Oest. Trias, TOULA Wien Jahrb. Geol. RchsAnst. 59 393.—*M. stampensis, jaspersenii* spp. n. Bornholm Lias, MALLING & GRÖNWALL Medd. Dansk. Geol. For. 15 pp. 278 & 281 and Fr. 309–310 figs.

†*Myophoria keferstein*i, vars. *formalis lombardica, multiradiata, nuda, perversa*? and *tenuis*, varr. n., Seiser Alm Triassic, WAAGEN Wien Abh. Geol. RchsAnst. 18 Heft 2 1907 p. 70.

†*Mysidioptera* (*Pseudacesta*) subg. n. *dieneri* p. 113, *M. emiliae intermedia, carinata*, var. and spp. n., Seiser Alm Trias, WAAGEN Wien Abh. Geol. Rchs-Anst. 18 Heft 2 1907 pp. 109 & 113.—*M. h. philippi, aequicostata, erecta*, spp. n., South Tyrol Triassic, WILCKENS Heidelberg Verh. Nathist. Ver. N. 7 10 pp. 135 & 139–140 figs.

Mystilaster lineatus maestica and *zernovi* varr. n., Schwarzen Meer, MILASCEWICZ Ann. Mus. zool. St. Peterburg 14 pp. 156 & 161.

Mytilus galloprovincialis frequens var. n. Schwarzen Meer, MILASCEWICZ p. 152 T.c.

†*M. ficus* sp. n. Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 113 figs.—*M. montensis* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique 5 1908 p. 69 figs.—*M.* (*Septifer*) *praeacutiformis, M.* (*Myoconcha*?) *altecarinatus*, spp. n., South Tyrol Triassic, WILCKENS Heidelberg Verh. Nathist. Ver. N. 7 10 pp. 151 & 153 figs.

†*Nucula indica* sp. n. Süd-Uganda Gebiets, WITTENBURG N. Jahrb. Min. 1909 1 p. 12 fig.—*N. pradazensis* sp. n. South Tyrol Triassic, WILCKENS Heidelberg Verh. Nathist. Ver. N. 7 10 p. 154 figs.—*N. townsendi* nom. n. = *N. cuneiformis* Conrad, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 101.—*N. montensis, sinuatella*, spp. n., Belgium Tertiary, COSSMANN Mem. Mus. Belgique 5 1908 pp. 58–60 figs.

†*Opis pulla* sp. n. Heilsberg Jura, KRAUSE Berlin Jahrb. geol. Landesanst. 29 p. 266 figs.—*O. parvocardinata* sp. n. Madagascar, THÉVENIN Ann. paleont. Paris 1908 3 p. 130 figs.

†*Orthonota negra* sp. n. Elberfelder Devon., SCHMIDT Elberfeld Jahresber. natw. Ver. 12 p. 53.

Ostrea; inverdimento, POLICE Riv. mens. Pesca 11 p. 168.—*O. taurica karkinitica* var. n. Schwarzen Meer, MILASCEWICZ Ann. Mus. zool. St. Peterburg 14 pp. 161–162 fig.

†*O. montensis* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique 5 1908 p. 73 figs.—*O. zululandiae* sp. n. Zululand Cretaceous, NEWTON Trans. R. Soc. South Africa 1 p. 50 figs.—*O. pomeli soudanensis* var. n. French Soudan, LEMOINE Paris Bul. Soc. philom. 10 i p. 103 figs.—*O.* (*Gryphaea*) *katzeri* sp. n. Ostbosnien, OPPENHEIM Wien Jahrb. Geol. Rchs-Anst. 58 1908 p. 325 figs.—*Ostrea* vide etiam *Gryphaea*.

†*Oxypteria* subgen. n. vide *Aviculopecten*.

†*Oxytoma inaequivalvis borealis* var. n. Kelloway u. Oxford Centralrussland, *subrecta* Sequanien Centralrussland sp. n., BORISIAK St. Peterburg Mém. Com. géolog. 44 pp. 5–7 7–8 & 19–21 figs.

†*Pandora degranyei* sp. n. France Coinozoic, COSSMANN & PEYROT Bordeaux Actes soc. linn. 63 p. 112 figs.

†*Panomya* (*ampla* var.?) *chrysis* n. Oregon and California Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. 59 p. 133 fig.

†*Panopea meyeri* Upper Greensand of Blackdown, p. 229 figs., *spilsbriensis* Spilsby Sandstone of Donnington, p. 222 figs., spp. n., WOODS Monogr. Cretac. Lamellibranchia England 2 pt. 6.

†*Paracyclas polita*, sp. n. Elberfelder Devon., SCHMIDT Elberfeld Jahresber. natw. Ver. 12 p. 58.

†*Parallelodus* gen. n. (*Prionoleismacea*), *obliquus* sp. n. Missouri Ordovician, BRANSON Trans. Acad. St. Louis **18** p. 43 figs.

Pecten helleri sp. n. Ceylon, PRESTON Rec. Ind. Mus. **3** p. 139.—*P. perfectus* sp. n. Chagos Archipelago, MELVILL London Trans. Lin. Soc. **13** p. 127 fig. —*P.* (*Chlamys*) *dichrous* sp. n. New Zealand, SUTER London Proc. Malac. Soc. **8** p. 264 fig.

†*P. hallensis weissenbachensis* *P.* (?) *alberti* var. *weissenbachensis* varr. n. Hinterbrühl Lower Austria, Triassic, TOULA Wien Jahrb. Geol. RchsAnst. **59** pp. 386–388.—*P. ambongoensis* Madagascar, THÉVENIN Ann. paléont. Paris 1908 **3** p. 128 figs.—*P. tirolicus*, *subtilis*, *longauris*, *microtis*, spp. n., Süd Tirol Lias inf., WITTENBURG N. Jahrb. Min. **1908** pp. 17–21. —*P. levicostatus* form. n. Panama Jungtertiär., TOULA Wien Jahrb. Geol. RchsAnst. **58** p. 713.—*P. viezzenensis*, *de-lorenzoi*, spp. n., South Tyrol Triassic, WILCKENS Heidelberg Verh. Nathist. Ver. N. **7 10** pp. 147 & 211 figs.—*P.* (*Aequipecten*) *scutariensis* sp. n. Albania Tertiary, VETTERS Wien Denkschr. Ak. Wiss. **80** 1907 p. 243 figs.—*P.* (*Ae.* ?) *opercularifórmis* form. n., p. 712.—*P.* (*Amusium*) *gatunensis* form. n., Panama spp. n. Jungtertiär., p. 716, TOULA Wien Jahrb. Geol. RchsAnst. **58**.—*P.* (*Entolium*) *gothicus* sp. n. Heilsberg, Jura KRAUSE Berlin Jahrb. geol. Landesanst. **29** pp. 256 figs.—*P.* (*Flabellipecten*) *gatunensis* form. n. Panama, Jungtertiär., TOULA Wien Jahrb. Geol. RchsAnst. **58** p. 711.—*P.* (*Leptochondria*) *albertii virgalensis* var. n. Sud-Ussuri-Gebietes, WITTENBURG N. Jahrb. Min. **1909** 1 p. 8 fig.—*P.* (*Velopecten*) *arthaberi* sp. n. Seiser Alm. Trias, WAAGEN Wien Abh. Geol. RchsAnst. **18** Heft 2 1907 p. 105.

Pectunculus glycimeris et *pilosus* Linné; à propos de deux variétés recueillies a Cancale, MARTIN Feuille jeunes natural. **38** 1908 pp. 152–157.

†*P. duponti* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 61 fig.

†*Perna boeschi* sp. n. Ostbosnien, OPPENHEIM Wien Jahrb. Geol. RchsAnst. **58** 1908 p. 326 figs.—*P. isaryuicensis* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 72 figs.

†*Pernopecten* ? *marbuti* sp. n., Missouri Carboniferous, ROWLEY Missouri Bur. Geol. Mines **8** p. 93 fig.

Phacoides rugosus nom. n. for *Lucina* (*Codakia*) *seminula* Smith, *superabilis* sp. n., Hope Is., HEDLEY Sydney Proc. Linn. Soc. **34** p. 427 fig.

†*P. montensis*, p. 15 figs.—*P.* (*Cavilucina*) *duponti*, *limellicardo*, pp. 17 & 18 figs.—*P.* (*Here*) *briarti*, p. 20 figs.—*P.* (*Milthia*) *contortus*, p. 14 figs.—*P.* (*Pacavilucina*) *coraeti*, *naumus*, *pireti*, pp. 21–25 figs.—*P.* (*Recticardo* sect. n.) *rutoti*, *dolloi*, pp. 18–20 figs., spp. n., Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908.

†*Phacnodesmia cuneiformis* sp. n. Heilsberg Jura, KRAUSE Berlin Jahrb. geol. Landesanst **29** p. 296 figs.

†*Pholadomya baltica* sp. n. Heilsberg Jura, KRAUSE l.c. p. 273 fig.

†*Pholadomya puschi* var. n. *aturensis* France Caimozzie, COSSMANN & PEYROT Bordeaux Actes soc. linn. **63** p. 126 fig. —*P. spectonensis* sp. n. Specton Clay, WOODS Monogr. Cretac. Lamellibranchia England **2** pt. 6 p. 248 fig.—*P. vallis-piceae reuberi*, *steri*, spp. n., Niederösterreich, TRAUTH Wien Beitr. Pal. Geol. Oest-Ung. **22** pp. 121 & 122.—*Pholadomya nodulifera* p. 168–169, *ornata* p. 169, Turon des Bucharei, Bucharbung (Russ.), KLER St. Petersburg Trd. geol. Muz. Al. nauk. **2**.

†*Pholas dactylus* var. *marocana* Da Costa *calcarata* mut nov. p. 129 figs. —*P.* (*Zerpanopsis*) *rocheri* sp. n., p. 133 figs., France Caimozzie, COSSMANN & PEYROT Bordeaux Actes soc. linn. **63**.

†*Pinna kaidabica* sp. n. Turon des Bucharei, KLER St. Petersburg Trd. geol. Muz. Ak. nauk. **2** p. 170 pl. viii f. 4. —*P. steri* sp. n. Niederösterreich, TRAUTH Wien Beitr. Pal. Geol. Oest-Ung. **22** p. 79.

Pordium stewarti sp. n. Tibet, PRESTON Rec. Ind. Mus. p. 116.—*P.* (*Aspergillum*) *lindemeri*, sp. n. Indian Seas, GERMAIN Bul. Mus. Paris **1909** p. 176.—*P.* (*Planiporium*) *barnesiae*, *decortatum* and *complanatum* varr. n. *subdistortum*, *dubium*, varr. and spp. n., Baikal-See.—

P. (*Fossarina*) *koretnevi*, *nordenskiöldi semenkevitschi*, *grannm.* spp. and var. n., Lake Baikal. LINDHOLM Zool. Exped. Baikal See Lfg. **4** pp. 83–87 figs.

†*Plicanopsis patellifurmis* sp. n. Heilsberg Jura. KRAUSE Berlin Jahrb. geol. Landesanst. 29 p. 260 figs.

†*Pleuromya anglica* sp. n. Lower Greensand of Atherfield. WOODS Monogr. Cretac. Lamellibranchia England! 2 pt. 6 p. 238 figs.

†*Pleurodesma sacgi* sp. n. France Cainozoic, COSSMANN & PEYROT Bordeaux Actes soc. linn. **63** p. 191 figs.

†*Pleuromya Koenigi* sp. n. South Tyrol Triassic, WILCKENS Heidelberg Verh. Nathist. Ver. N. 7 **10** p. 166 fig. —*P. pelecoides*, *triangula*, spp. n., Grossau. TRAUTH Wien Beitr. Pal. Geol. OestUng. **22** p. 115.

†*Plicatula andersoni*, *rogersi*, spp. n., Zululand Cretaceous. NEWTON Trans. R. Soc. South Africa, **1** pp. 64–67 figs.

†*Posidonomya latemarensis* sp. n. South Tyrol Triassic, WILCKENS Heidelberg Verh. Nathist. Ver. N. 7 **10** p. 201 figs.

†*Praerangia* gen. n. *Rangiidae*, *minuscula* sp. n. Belgium Tertiary. COSSMANN Mem. Mus. Belgique **5** 1908 p. 35 figs.

†*Protocardia phillippiana magna* var. n. NiederOesterreich, TRAUTH Wien Beitr. Pal. Geol. OestUng. **22** p. 114.

Protocardium borassicum, *intermedium*, spp. n., Heilsberg Jura, KRAUSE Berlin Jahrb. geol. Landesanst. **29** pp. 270 & 271 figs.

†*Pseudacesta* subgen. n. vide *Mysidioptera*.

†*Pseuderiphyla longidentata* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 51 figs.

Pseudodon ponderosa sp. n. Siam, PRESTON London Proc. Malac. Soc. **8** p. 202 figs.

†*Pseudomonotis dieneri*, *waagoni*, *punjabensis*, *saxorum*, spp. n., Sud-Ussuri-Gebiet. WITTENBURG N. Jahrb. Min. **1909** 1 pp. 9–12 figs. —*P. ochotica* Ob. Trias Krim u. Kaukasus, Beschreibung, BORISSIAK St. Petersburg Bull. Com. geol. **28** pp. 87–97 deutsch. Rés. p. 91–97 & 99–101 pl. iv. —*P. echinata*, *doneziana* var. n. Donez-Jura var. *subechinata* redescribed, *uralensis* sp. n. Ural-Jura. BORISIAK St. Petersburg Mém. Com. géolog. **44** pp. 9–16 & 22–26 figs.

†*Pteronites solenoides* sp. n. Elberfelder Devon. SCHMIDT Elberfeld Jahresber. natw. Ver. **12** p. 57.

Recticardo sec. n. vide *Phacoides*.

Rochefortia viastellata sp. n. Hope Is., HEDLEY Sydney Proc. Linn. Soc. **34** p. 429 figs.

†*Scaldia carbonaria* sp. n. Yorkshire Coalfield, HIND Yorks. Proc. Geol. Polyt. Soc. **1908** p. 335 fig.

†*Scintilla* (*Spaniorinus*) *capillacea* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 47 figs.

Semele isoecles sp. n. Hope Is., HEDLEY Sydney Proc. Linn. Soc. **34** p. 434 figs.

†*S. sayi* sp. n. Panama Jungtertiär., TOULA Wien Jahrb. Geol. Rchs-Anst. **58** p. 730.

†*Semicorbula nadeli* sp. n. France Cainozoic, COSSMANN & PEYROT Bordeaux Actes soc. linn. **63** p. 187 figs.

†*Septiola dreyssensiformis* sp. n. Seiser Alm Trias, WAAGEN Wien Abh. Geol. RchsAnst. **18** Heft 2 1907 p. 85.

†*Solecurtus gatunensis* sp. n. Panama Jungtertiär., TOULA Wien Jahrb. Geol. RchsAnst. **58** p. 732.

†*Solen radiatus* sp. n. Heilsberg Jura, KRAUSE Berlin Jahrb. geol. Landesanst. **29** p. 272 fig.—*S.* (*Plectosolen curtus* var. ?) *conradi* sp. n. Oregon and Washington Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** p. 129 figs.

Soletellina dautzenbergi sp. n. New Caledonia, SOWERBY Ann. Mag. Nat. Hist. **3** p. 314 fig.

Spatha semicorrugata sp. n. Congo, PRESTON Ann. Mag. Nat. Hist. **4** p. 90 fig.

Spatha (*Leptospatha*) *stuhlmanni* var. *comoccnsis* var. n. Côte d'Ivoire, GERMAIN J. conchyliol. Paris **56** 1908 p. 114.

Sphaerium storense Dyb. Descr. p. 80 figs., *capiduliferum* sp. n. Baikal-See, LINDHOLM Zool. Exped. Baikal-See Lfg. **4** pp. 81–82 fig.—*S. mamilianum*, Transkaukasien, Beschreibung (Russ.),

SIDOROV Moskva Trd. Kurž. ižel. rus. pris. **4** p. 60.

Sphenia quadrangularis sp. n. Siam, LYNGE Kobenhavn Vid. Selsk. Skr. **5** p. 272 figs.

†*S. duponti, excelsa, hedrupata*, spp. n., Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 pp. 8 & 9 12 & 13 figs.

†*Sphenotus biangulatus, obliquus*, spp. n., Elberfelder Devon. SCHMIDT Elberfeld Jahresber. naturw. Ver. **12** p. 54.

†*Spisula* (*Hemimactra*) *precursor* sp. n. Oregon and California Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** p. 131 fig.

Sportella jubata, sperabilis, spp. n., Hope Is., HEDLEY Sydney Proc. Linn. Soc. **34** p. 428 figs.

†*S. subacquilateralis* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 45 figs.

Syndesmya alba pontica var. n. Schwarzen Meer, MILASCEWICZ Ann. Mus. zool. St. Petersburg **14** p. 165.

†*Technophorus* (probably bivalve crustacean), *bellistriatus* sp. n. Missouri Ordovician, BRANSON Trans. Acad. St. Louis **18** p. 47 figs.

Tellina bougei sp. n. New Caledonia, SOWERBY Proc. Malac. Soc. London **8** p. 200 fig.—*T. ctesiacu*, sp. n. Hope Is., HEDLEY Sydney Proc. Linn. Soc. **34** p. 431 figs.—*T.* (*Arcopagia*) *smithi*.—*T.* (*Merisca*) *martensi*. *T.* (*Moerella*) *berghi*, *T.* (*Macoma*) *tenuisculpta*, spp. n., Siam, LYNGE Kobenhavn Vid. Selsk. Skr. **5** pp. 194 195 200 & 208.

†*T. rowlandi* sp. n. Panama Jungtertiär., TOULA Wien Jahrb. Geol. ReichsAnst. **58** p. 728.—*T. briarti* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 12 figs.—*T. eugenia, aragonia*, *T.* (*Moerella*) *nuculana*, spp. n., Oregon Miocene, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** pp. 124–126 figs.—*T.* (*Peronidia*) *montensis* sp. n. Belgium Tertiary, COSSMANN Mem. Mus. Belgique **5** 1908 p. 13 figs.

†*Tiredo gualtiana* sp. n. Gault of Folkestone, WOODS Monogr. Cretac. Lamellibranchia England **2** pt. 6 p. 237 fig.

Theora nitida sp. n. Hope Is., HEDLEY Sydney Proc. Linn. Soc. **34** p. 435 figs.

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†*V. parapodema* **sp. n.** Oregon Miocene, ?*V. ensifera* **nom. n.** = *V. lamellifera* Conrad, DALL Washington Dept. Int. U. S. Geol. Surv. Prof. Pap. **59** p. 122 figs.

†*Vulsella oppenheimi* **sp. n.** Italy Eocene, DAINELLI Pisa Atti. Soc. tosc. sc. nat. **25** p. 135.—*V. nagórzanyensis* **sp. n.** Lemberg Cretaceous, ROGALA Kraków Bull. Intern. Acad. **1909** p. 692 fig.

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†*Aegoceras brownei* **sp. n.** New Zealand Jurassic, MARSHALL Trans. N. Zeal. Inst. **41** p. 144.—*A. centaurus bornholmiensis* **var. n.** Bornholm Lias, MALLING & GRÖNWALL Meddl. Dansk. Geol. For. **15** pp. 288–291 & Fr. 310–311 figs.

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†*Coninckites vidarbhae*, **sp. n.** Lower Trias N. W. Himalaya, DIENER Pal. Ind. Calcutta Ser. 15 **6** mem. 2 p. 13 fig.

†*Cosmoceras globosum* sp. n. Ungarn Jura, TILL Wien Verh. Geol. Reichs Anst. 1909 p. 193.

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†*Dinarites dektrae* sp. n. Griechenland. RENZ Geologie Griechenlands Hab.-Schr. p. 150.

†*Girthiceras* gen. n., *pernodosum* sp. n. Lower Trias N.-W. Himalaya, DIENER Pal. Ind. Calcutta Ser. 15 6 mem. 2 p. 28 fig.

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†*Ophiceras obtusoangulatum* **sp. n.** Lower Trias N.-W. Himalaya, KRAFFT & DIENER Pal. Ind. ser. 15 **6** mem. 1 p. 82 fig.

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†*Palaeolobites frechi* **sp. n.** Griechenland, RENZ Geologie Griechenlands Hab.-Schr. p. 150.

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†*Pericyclus pulcher* **sp. n.** Unt. Carbon von Kaluga, LISICYN Ann. géol. miner. Novo-Aleksandrija **11** p. 117 fig.

†*Perisphinctes camerates*, *kiliani*, *familiaris* var. *multicostata*, var. *planulatiformis*, *valens*, *colubrinus*, var. *crassicostata*, *validus*, *catulloi*, *insignis*, *subalpinus*, **spp.** and **varr. n.**, Mödling Jura, TOULA Wien Abh. Geol. RchsAnst. **16** H. 2 1907 pp. 27–45 figs. *P. drevermanni*, *leptoides*, *planus*, *villanoides*, **spp. n.**, Ungarn Jurassic, TILL Wien Verh. Geol. RchsAnst. **1909** p. 193.—*P. romanicus*, *ponti*, *treptensis*, *consociatiformis*, *petersi*, *cotowi*, *dobrogensis*, *altermicostatus*, *carsicensis*, *multifidus*, *topalensis*, **spp.** and **form. n.**, Härsova, SIMIONESCU Bucureci Publ. Adamachi Ac. Romana **21** 1907 pp. 14–17 24–26 35–40 43–44 48 53–56 figs.—*P. siemiradzkii*, *brunensis*, *latus*, *latambonatus*, *correlatus*, *abeli*, *lateinensis*, *pila*, *varians*, *divergens*, *procedens*, *guebhardi*, *vanae*, **spp. n.**, Brünn, OPPENHEIMER Wien Beitr. Pal. Geol. OestUng. **20** 1907 pp. 243–249 & 251–255.

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IX. ARTHROPODA

(GENERAL)

ARRANGED BY

D. SHARP

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Litocheira cristata **sp. n.** Gulf of Siam, RATHBUN t.c. p. 111.

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Mortensenella **gen. n.** near *Pinnixa* type *forceps* **sp. n.** Gulf of Siam, RATHBUN t.c. p. 111.

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Cryptocnemus mortensenii sp. n. Gulf of Siam, *pentagonus* Stimpson comp., RATHBUN t.c. p. 107.

Heteronucia mesaucensis sp. n. Gulf of Siam, RATHBUN t.c. p. 107.

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Galathea elegans descr., SOUTHWELL Rep. Gov. Baroda Mar. Zool. Okhamandal Pt. 1 p. 120 fig. 11.

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(*Boreomysis subpellucida* p. 8 figs. 5–8, *semicocca* p. 9 figs. 9–11, **spp. n.** N. Atlantic, HANSEN Bul. Mus. océan. Monaco **30** 1905.)

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HANSEN Bul. Mus. océan. Monaco **42** 1905.)

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†*Pygocephalus* spp. from Sparth Lancashire, PARKER Lancashire Naturalist **2** p. 4 2 figs.

(*Thysanoessa parva* **sp. n.** N. Atlantic, HANSEN Bul. Mus. océan. Monaco **30** 1905 p. 25 figs. 22–24.)

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(*Amallophora affinis* p. 21, *obtusifrons* p. 22, **spp. n.** N. Atlantic, SARS Bul. Mus. océan. Monaco **26** 1905)—*A. claviger* **sp. n.** North of Scotland,

SCOTT Ann. Mag. Nat. Hist. Ser. 8 **3** p. 124 figs. on pls. iii & iv.

Ameira sibogae **sp. n.** Malay Archipelago, SCOTT Result. Exp. Siboga Monogr. **29a** (Livr. 44) p. 222 pl. lx figs. 1–7.

Amphiascus latifolius p. 28 pl. vii, *congener* p. 29 pl. viii figs. 1–4, *polaris* p. 30 pl. viii figs. 5–10, *brevis* p. 31 pl. viii figs. 11–15, **spp. n.** Ellesmere Land, SARS Rep. Sec. Arctic Exped. "Fram" No. **18.**

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(*Aristellus giesbrechti*, *plumifer* p. 21, *pavoninus*, *simplex* p. 22, **spp. n.** N. Atlantic, SARS Bul. Mus. océan. Monaco **40** 1905.)

Arthropsyllus **gen. n.** near *Anchorabolus*, *serratus* **sp. n.** coasts of Norway p. 318, pl. ccxiv, SARS Crustacea of Norway **5.**

Ascidicola rosea in Belfast Lough, RIDDELL Irish Nat. Dublin **18** p. 140.

(*Augaptilus aculeatus* p. 10, *laticeps*, *oblongus* p. 11, *brevicaudatus*, *gracilis*, p. 12, *elongatus*, *acutifrons*, p. 13, *truncatus* p. 14, *longicirrhus*, *tenuicaudis* p. 15, *gibbus* p. 16, *longimanus*, *cucullatus* p. 17, **spp. n.** N. Atlantic, SARS Bul. Mus. océan. Monaco **40** 1905)—*A. placitus* p. 137 pl. xlii figs. 10–19, *validus* p. 138 pl. xlii figs. 1–10, **spp. n.** Malay Archipelago, SCOTT Result. Exp. Siboga Monogr. **29a** (Livr. 44).

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(*Bathypontia* **gen. n.** (*Parapontellidae*) p. 23, *elongata* **sp. n.** N. Atlantic p. 24, SARS op. cit. **40** 1905.) *B. spinifera* **sp. n.** Malay Archipelago, SCOTT Result. Exp. Siboga Monogr. **29a** (Livr. 44) p. 18 pl. iii figs. 1–16.

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(*Charadina angulata* sp. n. N. Atlantic, SARS Bul. Mus. océan. Monaco **26** 1905 p. 13.)

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Dactylopusia glacialis **sp. n.** Ellesmere Land, SARS Rep. Sec. Arctic Exped. "Fram" No. **18** p. 25 pl. v.

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Diaptomus bacillifer Tschatyr-Kul, Extremitaten pp. 12 & 41 Textf. 2, *salinus* Issyk-Kul pp. 13 & 42, DADAY St. Petersburg Trav. Soc. nat. Sect. zool. **39** 2 (1-e partie)—*D. [illegible]* p. 295 figs. on pls. xii & xiii, *[illegible]* p. 297 figs. on pls. xiii & xiv, *[illegible]* p. 298 pl. xiv figs. 41–45, **spp. n.** Tunisia, *salinus* p. 298 pl. xiv figs. 46, GURNEY London J. R. Microsc. Soc. **1909**—*D. mixtus* Nyasa p. 34 pl. vii figs. 9–17, *simplex* Tanganyika p. 36 pl. viii figs. 25–32, *[illegible]* p. 37 pl. ix figs. 33–42, **spp. n.**, *[illegible]* **nom. n.** for *galebi* Mrazek (nec Barroisi) p. 33 pl. vi figs. 1–8, *[illegible]* p. 35 pl. viii figs. 18–24, SARS London Proc. Zool. Soc. **1909**.

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Enterocola pteropkora **sp. n.** Boulogne-sur-mer, CHATTON et BRÉMENT Paris Bul. Soc. zool. **34** p. 225 fig. p. 226.

Enteropsis review of spp. p. 200, *roscoffensis* **sp. n.** in *Stylopsis grandularia*, Roscoff, p. 198 figs. 1–5, CHATTON et BRÉMENT t.c.

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Ergasilus sp. recorded, Lake Nyassa, SARS t.c. p. 66.

Euchaetus dentatus **sp. n.** Malay Archipelago, SCOTT Res. Exp. Siboga Monogr. **29a** (Livr. 44) p. 22 pl. ii figs. 1–8.

(*Euchaetta tarsiata* p. 15, *perrecta*, *[illegible]* p. 16, *[illegible]* p. 17, **spp. n.** N. Atlantic, SARS Bul. Mus. oceanog. Monaco **26** 1905)—*E. trascalus* **sp. n.** ostl. Mittelmeer, Pisza Wien Denkschr. Ak. Wiss. **84** (Ber. d. Komm. ostl. Mittelmeer) p. 30 figs.—*E. [illegible]* **sp. n.** Malay Archipelago, SCOTT Result. Exp. Siboga Monogr. **29a** (Livr. 44) p. 68 pl. xvii figs. 1–12.

(*Euchirella longa* **sp. n.** N. Atlantic, SARS Bul. Mus. ocean. Monaco **26** 1905 p. 12)—*E. gracilis* p. 78 pl. xiii figs. 1–12, *dentata* p. 79 pl. xiii figs. 13–21, *dubia* p. 60 pl. xiv figs. 1–7, **spp. n.** Malay Archipelago, SCOTT Result. Exp. Siboga Monogr. **29a** (Livr. 44).

(*Euductylina argus* **sp. n.** Massachusetts, WILSON Washington Proc. Biol. Soc. **18** 1905 p. 131)—*E. [illegible]*, BRIAN Copepodi parassiti p. 77 pl. v fig. 1.

Euductylopus **gen. n.** near *Dactylopusia* type *latipes* T. Scott, Scott Result. Exp. Siboga Monogr. **29a** (Livr. 44) p. 219 pl. lxiii figs. 8–14.

Eupelte oblivia sp. n. Malay Archipelago, Scott t.c. p. 207 pl. lxvi figs. 1–12.

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(*Gaidanus latifrons*, *curvicornis*, *robustus*, p. 11, *inermis* p. 12 spp. n. N. Atlantic, Sars Bul. Mus. océan. Monaco **26** 1905)—*G. hamatus* sp. n. Malay Archipelago, Scott Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 50 pl. ix figs. 16–22.

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(*Gaidius affinis*, *notacanthus*, p. 9, *cryptospinus*, *divaricatus*, p. 10, spp. n. N. Atlantic, Sars Bul. Mus. océan. Monaco **26** 1905.)

(*Gloiopotes ornatus* sp. n. Massachusetts, Wilson Washington Proc. Biol. Soc. **18**, 1905 p. 127.)

Harpacticus cristatus p. 200 pl. lxi figs. 1–8, *clausi* p. 201 pl. lxi figs. 9–14A, spp. n. Malay Archipelago, Scott Résult. Exp. Siboga Monogr. **29a** (Livr. 44).

Hatschekia sargi p. 68 pl. iii fig. 2, sp. ? p. 70 pl. xx figs. 1–4, *damianii* sp. n. Italy p. 70, Brian Copepodi parassiti—*H. cornigera* sp. n. on *Pagellus centrodontus*, Aberdeen, Scott Glasgow Rep. Fish. Board **26** pt. 3 p. 75 pl. iii figs. 1–7.

Hemidiaptomus ignatovi Exopodit, Daday St. Petersburg Trav. Soc. nat. Sect. zool. **39** 2 (1-e partie) pp. 11 & 41 Textf. 1.

Hermannella concinna sp. n. Malay Archipelago, Scott Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 262 pl. lxviii figs. 1–10.

(*Heterorhabdus latus* sp. n. N. Atlantic, Sars Bul. Mus. océan. Monaco **40** 1905 p. 9.)

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Hyalopontius gen. n. p. 6 (voisin de *Pontocella*) *typicus* sp. n. North Atlantic p. 6 fig. 3, Sars Bul. Inst. océan. Monaco **147**.

Idomene coronata chars., Sars Rep. Sec. Arctic Exped. "Fram" No. **18** p. 26 pl. vi.

Idyaea nom. n. for *Idya* Philippi *nec* Blainville, *inflata* sp. n. Ellesmere Land, Sars t.c. p. 21 pl. iii.

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Ilyophilus perplexus sp. n. Tanganyika, Sars London Proc. Zool. Soc. **1909** p. 47 pl. xiii figs. 93–104.

Ilyopsyllidae fam. n. for *Ilyopsyllus* Brady & Robertson, Scott Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 228.

Kröyeria lineata, Brian Copepodi parassiti p. 67 pl. v fig. 3.

Labidocera bataviae p. 168 pl. l figs. 1–8, *madurae* p. 169 pl. l figs. 9–16, spp. n. Malay Archipelago, Scott Résult. Exp. Siboga Monogr. **29a** (Livr. 44).

Laophonte applanata p. 36 pl. xi, *hyperborea* p. 37 pl. xii, spp. n. Ellesmere Land, Sars Rep. Sec. Arctic Exped. "Fram" No. **18**.

Lepeophtheirus nordmanni, Brian Copepodi parassiti p. 47 pl. i fig. 1.

Lernaeenicus sp. ? Brian t.c. p. 88 pl. xviii figs. 8–13—(*L. sprattae*, Cligny Paris C.R. Soc. biol. **59** 1905 p. 165.)

Lernaeopoda cluthae. Bainbridge London Trans. Linn. Soc. Ser. 2 Zool. **11** p. 49 pl. x figs. 24–27—*L. heintzi* sp. n. Deutschland, Neresheimer München Ber. biol. Versuchstat. **2** p. 7.

Lernanthropus trachuri p. 63 pl. xvii fig. 1, *vorax* p. 64 text-figs., *brevis* p. 65 pl. xvii figs. 3–5, *gisleri* p. 65 pl. xvii fig. 2, Brian Copepodi parassiti.

Lichomolgus sepicola Nauplius, Pesta Wien Denkschr. Ak. Wiss. Mat. Nat. Kl. **84** p. 262 pl. ii fig. 7—*L. anomalus*

p. 264 pl. lxvii figs. 6–17, *gracilipes* p. 265 pl. lxviii figs. 11–20, **spp. n.** Malay Archipelago, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44).

Limnocalanus sinensis var. n. *darrii* Shanghai, BREHM. Arch. Hydrobiol. **4** p. 212 figs.

Longipedia weberi **sp. n.** Malay Archipelago, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 196 pl. lix figs. 9–12.

(*Lophothrix humilifrons* **sp. n.** N. Atlantic, SARS Bul. Mus. océan. Monaco **26** 1905 p. 22.)

(*Lucicutia gracilis, intermedia, aurita* **spp. n.** N. Atlantic, SARS Bul. Mus. océan. Monaco **40** 1905 p. 8)—*L. phalyra* p. 128 pl. xl figs. 10–18, *pera* p. 129 pl. xl figs. 1–9, **spp. n.** Malay Archipelago, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44).

Macandrewella **gen. n.** near *Scolecithricella*, p. 100, *joanae* **sp. n.**, Malay Archipelago p. 101, figs. on pls. vi & xxiii, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44).

(*Macrocalanus* **gen. n.** (*Calanidae*) *longicornis* **sp. n.** N. Atlantic, SARS Bul. Mus. océan. Monaco **26** 1905 p. 7.)

Macrosetella **nom. n.** for *Setella*, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 230.

Macrosetellidae fam. n. for *Macrosetella* (q. v.), SCOTT t.c. p. 230.

Maracnobiotus Bestimmungschlüssel für die Arten p. 322, *alpinus* **sp. n.** Dauphiné p. 313 figs., KEILHACK Arch. Hydrobiol. **4.**

Mesocletodes **gen. n.** near *Cletodes*, chars. p. 290, type *irrasus* (*Cletodes irrasa* Scott) p. 291 pl. cc, SARS Crustacea of Norway **5.**

(*Mesorhabdus* **gen. n.** (*Heterorhabdidae*) *annectens* **sp. n.** N. Atlantic, SARS Bul. Mus. océan. Monaco **40** 1905 p. 9)—*M. truncatus* **sp. n.** Malay Archipelago, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 132 pl. xxxix figs. 12–21.

(*Metridia macrura* **sp. n.** N. Atlantic, SARS Bul. Mus. océan. Monaco **40** 1905 p. 7.)

Microcancerilla **gen. n.** (*Asterocheridae*) *coeruleocruciata* **sp. n.** Northumberland, NORMAN and BRADY Newcastle Trans. Nat. Hist. Soc. **3** p. 399 pl. ix (A).

(*Monacilla* **gen. n.** (*Pseudocalanidae*) p. 8, *typica* **sp. n.** N. Atlantic p. 9, SARS Bul. Mus. océan. Monaco **26** 1905)—*M. dubia* **sp. n.** Malay Archipelago, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 35 pl. iii figs. 17–29.

Monstrilla orcula p. 236 pl. lvii figs. 5, 6, *inserta* p. 237 pl. lvii figs. 7, 8, *cymbula* p. 237 pl. lvii figs. 9, 10, *longipes* p. 238 pl. lviii figs. 3, 4, *turgida* p. 239 pl. lviii figs. 5, 6, **spp. n.** Malay Archipelago, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44).

Mycophilus curvatus **sp. n.** Banyuls-sur-mer, CHATTON et BRÉMENT Paris Bul. soc. zool. **34** p. 236 (fig. p. 237).

Nannopus chars. p. 306, *palustris* p. 307 pl. ccix, SARS Crustacea of Norway **5.**

Naobranchia cygniformis, BRIAN Copepodi parassiti p. 122 pl. ix fig. 3.

Nemesis lamna var. *sinuata* p. 72 pl. v fig. 2, *robusta* p. 72 pl. iv figs. 1–10, BRIAN t.c.

Neopontella **gen. n.** near *Parapontella* p. 185, *typica* **sp. n.** Malay Archipelago p. 185 pl. lv figs. 1–15, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44).

Neoscolecithrix kothleri synonymy, SCOTT Ann. Mag. Nat. Hist. Ser. 8 **3** p. 125.

(*Nesippus alatus* **sp. n.** Massachusetts, WILSON Washington Proc. Biol. Soc. **18** 1905 p. 130.)

Nitocra wolterecki, phlegraea, **spp. n.** Italia, BREHM Zool. Anz. **34** p. 421—*Nitocra muelleri* Douwe synon. mit *Nit. simplex* Schmeil, DOUWE Zool. Anz. **34** p. 318.

Normanella chars. etc. p. 277, *minuta* p. 278 pl. cxciii, *tenuifurca* **sp. n.** Bukken p. 280 pl. cxciv, *macronata* **sp. n.** Flekkerø, Farsund p. 280 pl. cxciv, SARS Crustacea of Norway **5.**

Notopterophorus gibber Anatomie u. Nauplius, PESTA Wien Denkschr. Ak. Wiss. Mat. Nat. Kl. **84** p. 258 pl. i figs. 1–6.

Pandarus bicolor, Brian Copepodi parassiti p. 55 pl. ii fig. 1—Scott Glasgow Rep. Fish. Board **26** pt. 3 p. 74 pl. iii figs. 18 & 19.

Parabroteas sarsi descr., Sars Arch. Math. Naturv. **30** No. 5 p. 29 pl. iv.

Paraculanus clevei **nom. n.** for *Acroculanus pediger* Cleve ♂ (non ♀). Carl Rev. suisse Zool. **15** p. 7.

Paraeuchaeta **gen. n.** near *Euchaeta* type *norvegica* Boeck p. 69, *gracilicauda* p. 72 pl. xviii figs. 9–16, *sibogae* p. 73 pl. xvi figs. 1–9, *weberi* p. 74 pl. xv figs. 9–16, *dentata* p. 76 pl. xxi figs. 16–23, *tuberculata* p. 76 pl. xxi figs. 1–8, **spp. n.** Malay Archipelago, Scott t.c.

Parameira elongata **sp. n.** Ellesmere Land, Sars Rep. Sec. Arctic Exped. "Fram" No. **18** p. 34 pl. x.

Parapeltidium **gen. n.** near *Peltidium*, *johnstoni* **sp. n.** Malay Archipelago, Scott Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 212 pl. lxv figs. 1–5.

Paraugaptilus similis **sp. n.** Malay Archipelago, Scott t.c. p. 144 pl. xliii figs. 11–19.

Peltidium falcatum p. 203 pl. lxiv figs. 7–11, *intermedium* p. 203 pl. lxiv figs. 6–10, *exiguum* p. 204 pl. lxv figs. 11–15, *minutum* p. 205 pl. lxv figs. 16–20, **spp. n.** Malay Archipelago, Scott t.c.

Peniculus fistula, Brian Copepodi parassiti p. 80 pl. vi fig. 1.

Pennella crassicornis p. 81 pl. vi figs. 2–7, *filosa* p. 83 pl. xviii figs. 1–7, *rubra* **sp. n.** on *Orthagoriscus mola* Naples p. 86 pl. vii fig. 3, Brian t.c.

Peroderma bellottii, Brian t.c. p. 94 figs. on pls. vii & xix.

Philorthagoriscus serratus, Brian t.c. p. 53 figs. on pls. i & xvi.

Phyllopodopsyllus longicaudatus **sp. n.** Malay Archipelago, Scott Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 223 pl. lx figs. 17–25.

Phyllopus giesbrechti **sp. n.** Malay Archipelago, Scott t.c. p. 149 pl. xlvi figs. 1–6.

Phyllothalestris frigida chars., Sars Rep. Sec. Arctic Exped. "Fram" No. **18** p. 23 pl. iv.

Platychelipus laophontoides **sp. n.** Christiania Fiord, Sars Crustacea of Norway **5** p. 276 pl. cxcii.

Pontella alata p. 160 pl. li figs. 11–15, *denticauda* p. 161 pl. lii figs. 1–12, *forficula* p. 162 pl. liii figs. 1–7, *ceramii* p. 163 pl. liii figs. 8–15, **spp. n.** Malay Archipelago, Scott Résult. Exp. Siboga Monogr. **29a** (Livr. 44).

Pontellopsis macronyx p. 173 pl. liv figs. 1–10, *pexa* p. 173 pl. liv figs. 11–14, **spp. n.** Malay Archipelago, Scott t.c.

Pontopolites chars. p. 309, *typicus* p. 309 pl. ccx, Sars Crustacea of Norway **5**.

(*Pontoptilus* **gen. n.** (*Augaptilidae*) *mucronatus* p. 18, *muticus*, *robustus*, *abbreviatus* p. 19, *attenuatus* p. 20, *acutilobus* p. 21, **spp. n.** N. Atlantic, Sars Bul. Mus. océan. Monaco **40** 1905.)

Pontostratiotidae fam. n. for *Pontostratiotes* Brady and *Aegisthus* Giesbrecht, Scott Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 232.

Poppella guernei notes, Gurney London J. R. Microsc. Soc. **1909** p. 300 pl. xiv fig. 46.

Psamathe arthuri chars., Sars Rep. Sec. Arctic Exped. "Fram" No. **18** p. 20 pl. ii.

Pseudanthessius weberi p. 267 pl. lxvii figs. 18–24, *pectinatus* p. 268 pl. lxviii figs. 21–27, *parvus* p. 269 pl. lxix figs. 1–7, *obscurus* p. 270 pl. lxix figs. 8–14, **spp. n.** Malay Archipelago, Scott Résult. Exp. Siboga Monogr. **29a** (Livr. 44).

(*Pseudeuchaeta* **gen. n.** (*Euchaetidae*) *brevicauda* **sp. n.** N. Atlantic, Sars Bul. Mus. océan. Monaco **26** 1905 p. 18.)

Pseudoboeckella poppei descr., Sars Arch. Math. Naturv. **30** No. 5 p. 22 pl. iii.

Pseudodiaptomus clevei **sp. n.** Malay Archipelago, Scott Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 116 pl. xxxvii figs. 1–8.

Pseudoeucanthus **gen. n.** near *Eucanthus* (*Erysilidae*) type *alosae* Brian 1902, Brian Copepodi parassiti p. 26.

Pseudolichomolgus **gen. n.** near *Lichomolgus*, *pectinis* **sp. n.** Trieste, PESTA Wien Denkschr. Ak. Wiss. **84** p. 263 figs.

Pseudolubbockia **gen. n.** (voisin de *Lubbockia*) p. 4, *dilatata* **sp. n.** North Atlantic p. 4 fig. 2, SARS Bul. Inst. océan. Monaco **147**.

Pseudotachidius chars. p. 330, *coronatus* p. 330 pl. cccxx, SARS Crustacea of Norway **5**.

Pseudothalestris sarsi **sp. n.** Malay Archipelago, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 218 pl. lxiii figs. 1–7.

Pseudotharybis **gen. n.** (near *Tharybis*) *zetlandicus* **sp. n.** North of Scotland, SCOTT Ann. Mag. Nat. Hist. Ser. 8 **3** p. 126 figs. on pls. ii & iii—*P. dubius* **sp. n.** 59° 36′ N., 7° 0′ W., 1140 metres, SCOTT op. cit. **4** p. 35 pl. iii figs. 1–15.

(*Onchocalanus* **gen. n.** (*Phaennidae*) p. 19, *trigoniceps*, *hirtipes* p. 20, **spp. n** N. Atlantic, SARS Bul. Mus. océan. Monaco **26** 1905.)

Ophioscides joubini **sp. n.** Banyuls-sur-Mer, paras. de *Microcosmus*, CHATTON Paris Bul. soc. zool. **34** p. 14 fig. 1–8—Nauplius double anadydyme CHATTON Paris C. R. soc. biol. **67** p. 482 fig.

Orthopsyllus chars. etc. p. 288, *linearis* p. 289 pl. cxcix, SARS Crustacea of Norway **5**.

Oxycalanus semispinus **sp. n.** Malay Archipelago, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 33 pl. ii figs. 9–21.

Rebelula edwardsii, BRIAN Copepodi parassiti p. 90 figs. on pls. xix & xxi.

Rhizothrix chars. p. 302, *curvata* p. 303 pl. ccviii, SARS Crustacea of Norway **5**.

Rhynchothalestris similis **sp. n.** Malay Archipelago, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 215 pl. lxii figs. 6–11.

Robertsonia chars. p. 334, *tenuis* p. 334 pl. ccxxii, SARS Crustacea of Norway **5**.

Sapphirina longifurca **sp. n.** Malay Archipelago, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 279 pl. lxix figs. 15–20.

Scaphocalanus elongatus **sp. n.** Malay Archipelago, SCOTT t.c. p. 98 pl. xxxii figs. 10–16.

Schizopera p. 39, *incopinata* p. 40 pl. x figs. 43–58, *validior* p. 41 pl. xi figs. 59–63, *consimilis* p. 42 pl. xi figs. 64–67, *ungulata* p. 43 pl. xi figs. 68–71, *minuticornis* p. 43 pl. xii figs. 72–77, *spinulosa* p. 44 pl. xii figs. 78–81, *fimbriata* p. 45 pl. xii figs. 82–86, *scalaris* p. 46 pl. xiii figs. 87–92, **spp. n** Central African Lakes, SARS London Proc. Zool. Soc. **1909**.

(*Scolecithricella gracilis* **sp. n.** N. Atlantic, SARS Bul. Mus. océan. Monaco **26** 1905 p. 21)—*S. tydemani* p. 93 pl. xxx figs. 10–17, *corticeuda* p. 94 pl. xxx figs. 1–9, **spp. n.** Malay Archipelago, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44).

(*Scottocalanus* **gen. n.** (*Scolecithricidae*) *acutus* **sp. n.** N. Atlantic, SARS Bul. Mus. océan. Monaco **40** 1905 p. 7) —*S. farrani* p. 106 figs. on pls. xxiv & xxix, *setosus* p. 108 pl. xxiv figs. 10–18, *longicaudus* p. 109 pl. xxv figs. 10–18, *thomasi* p. 109 figs. on pls. xxvi & xxviii, **spp. n.** Malay Archipelago, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44).

(*Scottula abyssalis* **sp. n.** N. Atlantic, SARS Bul. Mus. océan. Monaco **40** 1905 p. 22.)

Stenocaris **gen. n.** near *Cylindropsyllus* chars. p. 323, *gracilis* **sp. n.** Kerchavn p. 323 pl. ccxvi, SARS Crustacea of Norway **5**.

Stephos arcticus **sp. n.** Ellesmere Land, SARS Rep. Sci. Arctic Expedi. "Fram" No. **18** p. 16 pl. i.

Tachidiella **gen. n.** near *Tachidius* chars. p. 332, *minuta* **sp. n.** Skutesund p. 332, pl. ccxxi, SARS Crustacea of Norway **5**.

Tachidiidae chars., SARS t.c. p. 327.

Tachidius chars. p. 328, *brevicornis* p. 328 pls. ccxviii & ccxix, SARS t.c.

Tydemanella **gen. n.** near *Diaptomopsella*, *typica* **sp. n.** Malay Archipelago, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 219 pl. lxiii figs. 13–24.

Thaumaleus bullatus p. 240 pl. lviii figs. 7 & 8, *gigas* p. 240 pl. lviii figs. 9 & 10, **spp. n.** Malay Archipelago, SCOTT t.c.

Tortanus murrayi p. 191 pl. lvi figs. 1–8, *brevipes* p. 192 pl. lvi figs. 9–13, **spp. n.** Malay Archipelago, SCOTT t.c.

(*Undeuchaeta obtusa* p. 13, *pustulifera*, *scopularis* p. 14, *dubia* p. 15, **spp. n.** N. Atlantic, SARS Bul. Mus. océan. Monaco **26** 1905)—*U. intermedia* **sp. n.** Malay Archipelago, SCOTT Résult. Exp. Siboga Monogr. **29a** (Livr. 44) p. 63 pl. xxiii figs. 1–8.

Undinula **nom. n.** for *Undina* Dana, SCOTT t.c. p. 16.

(*Valdiviella brevicornis* **sp. n.** N. Atlantic, SARS Bul. Mus. océan. Monaco **26** 1905 p. 17.)

(*Xanthocalanus muticus* **sp. n.** N. Atlantic, SARS t.c. p. 19)—*X. tenuiremis* **sp. n.** North of Scotland, SCOTT Ann. Mag. Nat. Hist. Ser. 8 **3** p. 122 pl. ii figs. 1–7.

Zaus aurelii chars., SARS Rep. Sec. Arctic Exped. "Fram" No **18** p. 19 pl. ii figs. 1–6.

BRANCHIURA.

Argulus, réactions vis-à-vis de la lumière, BOHN Paris C. R. ass. franç. avanc. sci. **38** (Lille) p. 130—*A. belones* **sp. n.** Sumatra, KAMPEN Zool. Anz. **34** p. 443—*A. foliaceus* in E. Prussia, WEGENER Königsberg Schr. physik. Ges. **50** p. 261.

OSTRACODA.

Vergleichende Untersuchung der Eireifung, SCHLEIP Arch. Zellforschg. **2** p. 390 4 Taf.—of Northumberland and Durham, NORMAN and BRADY Newcastle Trans. Nat. Hist. Soc. **3** p. 341—VAVRA Die Süsswasserfauna Deutschlands **11** p. 85—of Ellesmere Land, SARS Rep. 2nd Arctic Exp. "Fram" **18** p. 40—du plankton de la mer du Grönland, DAMAS et KOEFOED in Duc d'Orleans Croisière océanogr. Belgica p. 347.

†*Ostracoda* Devonian Kentucky, BASSLER Washington Smithsonian Misc. Coll. **5** p. 132—Mitteldevon von Polen, SOBOLEW Mater. geol. Ross. **24** p. 392—Carboniferous Nowaja Semlja, LEE Edinburgh Trans. R. Soc. **47** p. 179—Diluvium Canstatt, SIEBER Stuttgart Beil. Jahresh. Ver. Natk. **65** No. 6. p. 91.

†*Aparchites* f. ind., Silurian Italy, GORTANI e VINASSA DE REGNY Bologna Mem. Ac. Sci. Ser. vi **6** p. 111.

†*Beyrichia lata*, *triplicata*, FOERSTE Cincinnati J. Soc. Nat. Hist. **21** p. 31 pl. i fig. 4—*B. nanella* **sp. n.** Ordovician Sweden, MOBERG & SEGERBERG Lund Univ. Årsskr. N. F. Afd. ii 2 No. 7 1906 p. 76 pl. iii figs. 27–28—*B. montana*, *embryoniformis*, **spp. n.** Devon Deutschl., SPRIESTERSBACH Berlin Abh. geol. Landesanst. **58** p. 48.

†*Bollia minor* var. n. *kuckersiana*, *minor* var. n. *robusta*, *ornata* **sp. n.** (= *minor* var. *ornata*), *ornata* var. n. *latimarginata*, Untersilur Estland, BONNEMA Groningen Mitt. Min. Geol. Inst. **2** pp. 57 & 84.

†*Bythocypris* sp. Devonian Rocky Mountains, KINDLE Bull. Amer. Paleontology No. **20** p. 35 pl. iv fig. 4.

Candona sp. Issyk-Kul, Beschreibung, DADAY St. Peterburg Trav. Soc. nat. Sect. zool. **39** 2 (1-e partie) pp. 22–23 49–50 Textf. 7—*C. pygmaea* p. 180, *lapponica* p. 183, *laciniata* p. 186, *longipes* p. 189 **spp. n.** Swedish Lappland, EKMAN Naturw. Unters. d. Sarekgebirges, **4** 2.

†*Ceratopsis schmidti*, *cornuta* (= *rostrata* var. *cornuta*) Untersilur **spp. n.** Estland, BONNEMA Groningen Mitt. Min. Geol. Inst. **2** pp. 39–41.

Conchoecia ætesios **sp. n.** Bay of Biscay, p. 254, pl. xxv figs. 247–253, *ametra* p. 229 pl. xvi figs. 1–19, *brachyaskos* p. 231 pl. xvi figs. 20–29, *curta* (= *stigmatica*) p. 231 pl. xvii figs. 30–54, *daphnoides* p. 233 pl. xvii figs. 55–57, *elegans* p. 233 pls. xvii xviii figs. 58–73, *haddoni* p. 235 pls. xviii xix figs. 73–89, *hyalophyllum* (= *lophura*) p. 236 pls. xix xx figs. 90–109, *imbricata* p. 238 pl. xx figs. 110–121, *incermis* p. 239 pl. xx figs. 122–126, *kampta* p. 240, *loricata* (= *ctenophora*) p. 240 pls. xx xxi figs. 127–138, *magna* (= *macrocheira*) p. 242 pls. xxi xxii figs. 139–160, *procera* (? = *decipiens*) p. 246 pl. xxii figs. 169–183, *pusilla* var. *major* p. 247 pls. xxii xxiii figs. 184–187, *rhynchena* p. 248 pl. xxiii figs. 188–204, *rotundata* p. 249 pls. xxiii xxiv

figs. 205–224, *spinifera* p. 251 pl. xxiv figs. 225–235, *spinirostris* (= *porrecta*) p. 252 pls. xxiv–xxv figs. 236–246, *tyloda* p. 253, spp. indet. pp. 254 255 pl. xxv figs. 254–262, descr., FOWLER London Trans. Linn. Soc. Ser. 2 zool. **10**.

†*Ctenobolbina kuckersiana* sp. n. *carinata* Untersilur, Estland, BONNEMA Groningen Mitt. Min. Geol. Inst. **2** pp. 43–46.

Cyclocypris impressopunctata sp. n. Finnischer Meerbusen, HIRSCHMANN Helsingfors Medd. Soc. Fauna et Fl. Fenn. **35** p. 284 fig. 1.

Cypricercus mongolicus sp. n. Issyk Kul, DADAY St. Petersburg Trav. Soc. nat. Sect. zool. **39** 2 (1-e partie) pp. 19 & 47 Textf. 5 & 6.

Cypridae italiane, MAST Archivio zool. **3** fasc. 4 p. 347 1 tav.

Cypridina mediterranea parasitic on fish (*Coryphaena*) Id. of Elba, BRIAN Boll. Naturalista Siena **29** p. 39—*C. castanea* descr., FOWLER London Trans. Linn. Soc. Ser. 2 Zool. **10** p. 257 pl. xxvi figs. 279–281.

Cythere ilyophila sp. n. Finnischer Meerbusen, HIRSCHMANN Helsingfors Medd. Soc. Fauna et Fl. Fenn. **35** p. 289 figs. 5 & 6.

Cytheria sicula Issyk Kul pp. 24 & 50, *pedaschenkoi* sp. n. Issyk Kul pp. 24 & 50 Taf. i f. 7–21 Textf. 8 & 9, DADAY St. Petersburg Trav. Soc. nat. Sect. zool. **39** 2 (1-e partie).

†*Cytherellina ulrichi*, *fennica*, *krause*, *ruedemanni* spp. n. Untersilur, Estland, BONNEMA Groningen Mitt. Min. Geol. Inst. **2** p. 72

Cytheridea tenuis sp. n. Finnischer Meerbusen, HIRSCHMANN Helsingfors Medd. Soc. Fauna et Fl. Fenn. **35** p. 286 figs. 2–4.

Cytheromorpha gen. n. near *Cythere* p. 290, *albula* p. 292 figs. 7 & 8, *claviformis* p. 293 spp. n. Finnischer Meerbusen HIRSCHMANN Helsingfors Medd. Soc. Fauna et Fl. Fenn. **35**.

†*Entomis oblongata* var. n. *kuckersiana*, *tenuistriata* sp. n., *oblonga* var. n. *kuckersiana*, Untersilur Estland, BONNEMA Groningen Mitt. Min. Geol. Inst. **2** 1909 pp. 68 & 84.

†*Eremos* gen. n. near *Isochilina* and *Bradoria*, *bryographorum* sp. n. (Westergård, MS.) Ordovician Sweden, MUNIER & SKUPHERED Lund Univ. Årsskr. N. F. Afd. ii **2** No. 7 1906 p. 75 pl. iii fig. 24.

Eucamptocoecia d'arcy thompsoni sp. n. North of Scotland, SCOTT Ann. Mag. Nat. Hist. Ser. 8 **3** p. 128 figs. on pls. iii & iv.

Gigantocypris agassizii structure, LEDERS Zs. wiss. Zool. **92** p. 103 2 Taf.—*G. pellucida* embryo, FOWLER London Trans. Linn. Soc. Ser. 2 Zool. **10** p. 267 pl. xxvi fig. 282—*G.* supposed capture of by "Challenger," CALMAN Nature **80** 1909 p. 248

Halocypris globosa descr., FOWLER London Trans. Linn. Soc. Ser. 2 Zool. **10** p. 255 pls. xxv & xxvi figs. 263–278.

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ARRANGED BY

W. T. CALMAN, D.Sc.

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Argentine: *Araneae* sp. n., *Scorpiones*; **Brèthes, 25**: *Tetranychus* (*Acari*); **Brèthes, 26**: *Amblyomma* (*Ixodidae*) sp. n.; **Dönitz, 58.**

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Tapinocyba ? aquilonaris Halbinsel Jamal, GRESE St. Peterburg Ann. mus. zool. **14** p. 327 pl. vii fig. 3.

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Tmeticus corticarius **sp. n.** New England, EMERTON New Haven Trans. Acad. Arts Sci. **14** p. 194 pl. vi figs. 4–4b.—*I. granulosus* Halbinsel Jamal, Beschreibung, GRESE St. Peterburg Ann. mus. zool. **14** p. 327 pl. vii fig. 5.—*T.* notes on gen., PICKARD-CAMBRIDGE Dorchester Proc. Dorset Nat. Hist. F.Cl. **30** p. 103.

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Diaea viridipes **sp. n.** S. Afrika, STRAND D. Südpolar Exped. Bd. **10** H. 5 p. 577.

Misumessus munieri **sp. n.** California, COOLIDGE Ent. News Philadelphia **20** p. 243.

Philodromus epigynatus, *thanatellus*, **spp. n.** S. Afrika, STRAND T.c. p. 580.

Plancinus advecticius **sp. n.** Tonkin, SIMON Bull. sci. France-Belgique **42** p. 140 [Omitted 1908].

Synaema riflense **sp. n.** S. Afrika, STRAND D. Sudpolar Exped. Bd. **10** H. 5 p. 579.

Thanatus formicinus Dongebiet, GRESE Moskva Trd. Kruž. izsl. rus. prir. **4** p. 108.

Xysticus pini, *sabulosus*, Dongebiet GRESE T.c. p. 106.—*X. albidus* **sp. n.** Halbinsel Jamal, GRESE St. Peterburg Ann. mus. Zool. **14** p. 328 pl. vii fig. 6 and 7.—*X. alpicola* p. 679 pl. xxvi fig. 20, *gallicus* p. 682 pl. xxvi figs. 24 and 25, KULCZYŃSKI Krakow Bull. Intern. Acad. **1909**.—*X. simonstownensis* **sp. n.** S. Afrika, STRAND D. Südpolar Exped. Bd. **10** H. 5 p. 576.

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Anyphaena delicatula **sp. n.** Costa Rica, BANKS Philadelphia Proc. Acad. Nat. Sci. **61** p. 200 pl. vi. fig. 40.

Apostenus acutus **sp. n.** New England, EMERTON New Haven Trans. Acad. Arts Sci. **14** p. 220 pl. ix figs. 7–7c.

Argoctenus nebulosus p. 163, *hystricalus* p. 164, spp. n. Australia, SIMON Faunа Südwest-Australiens Bd. 2 Lfg. 12.

Aristerus gen. n. near *Asadipus*, *phaleratus* sp. n. Australia, SIMON T.c. p. 179.

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Cerbalus nigriventris sp. n. Mogador, SIMON Madrid Mem. Soc. Esp. Hist. Nat. 6 p. 31.

Ceryerda gen. n. near *Molycria* p. 157, *cursitans* sp. n. Australia p. 158, SIMON Fauna Südwest-Australiens Bd. 2 Lfg. 12.

Chiracanthium nervosum p. 161 *pennuliferum*, p. 162, spp. n. Australia, SIMON T.c.

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Eusparassus argelasius atlanticus, *E. a. syrticus*, sub spp. n. N. Africa, SIMON Madrid Mem. Soc. Esp. Hist. Nat. 6 p. 30.

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Desis hartmeyeri **sp. n.** Australia, Simon Fauna Südwest-Australiens Bd. 2 Lfg. **12** p. 180.

Huhnia brunnea **sp. n.** New England, Emerton New Haven Trans. Acad. Arts Sci. **14** p. 223 pl. viii fig. 5.

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Cupiennius minimus **sp. n.** Costa Rica, Banks Philadelphia Proc. Acad. Nat. Sci. **61** p. 215 pl. vi fig. 27.—*C. subfoliatus* Ecuador, p. 293, *exterritorialis* S. Amerika ? p. 295, **spp. n.**, Strand Zool. Jahrb. Syst. **28**—*C. costaricae* Costa Rica p. 424, *cubae* Cuba p. 425, **spp. n.**, Strand T.c.

Dolomedes vernalis **sp. n.** New England, Emerton New Haven Trans. Acad. Arts Sci. **14** p. 211 pl. vii figs. 7–7d.—*D. fimbriatus, plantarius*, Kulczyński Krakow Bull. Intern. Acad. **1909** p. 430 figs. on pl. xxii.

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Revision of the *Attidae* of North America, PECKHAM G. W. and E. G. Madison Trans. Wis. Acad. Sci. 16 pt. 1 pp. 355–346 t. xx figs. pls. xxix–l.—*Salticidae* Nordafrikanische, STRAND Soc. entomol. Stettin 23 pp. 155–159 173–175 180–181 187–188; 24 pp. 4–6 12–14 21–22 35–38 44–46 53–54 62 68–69 74–76 83–85 90–91.

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Astia triticeola sp. n. Australia, SIMON T. c. p. 194.

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Clynotis barrosia sp. n. Campbell Id., Hogg Subantarct. Isl. New Zealand 1 p. 176 pl. viii figs. 6a–5g.—*C. albopictus* sp. n. Australia, SIMON Faune Südwest-Australiens Bd. 2 Lfg. 12 p. 201.

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Eugramma chlorophthalmus sp. n. Australia, SIMON Faune Sudwest Australiens Bd. 2 Lfg. 12 p. 203.

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Halrocestum accrlum **sp. n.** Texas and Georgia, PECKHAM G. W. and E. G. Madison Trans. Wis. Acad. Sci. **16** Pt. 1 p. 522 pl. xliv figs. 1–1c.—*H. chrysomelas* p. 201, *speculiferum* p. 202, **spp. n.** Australia, SIMON Fauna Südwest-Australiens Bd. 2 Lfg. **12**.

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Lyssomanes convexa **sp. n.** Costa Rica, BANKS Philadelphia Proc. Acad. Nat. Sci. **61** p. 225 pl. vi fig. 41.

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Ogdenia **nom. n.** for *Rooseveltia* Peckham, PECKHAM Milwaukee Bull. Wis. Nat. Hist. Soc. **6** p. 171.

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Phanias marginalis **sp. r.** Costa Rica, BANKS Philadelphia Proc. Acad. Nat. Sci. **61** p. 224 pl. v fig. 9.

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Poultonella **gen. n.** type *Attus alboimmaculatus* P., PECKHAM G. W. and E. G. T.c. p. 576.

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Simacthula chalcops sp. n. Australia, SIMON Faunа Südwest-Australiens Bd. 2 Lfg. 12 p. 207.

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Spilargis ignicolor Sim. var. n. *bimaculata* Halmahera, STRAND Görlitz Abh. natf. Ges. 26 p. 122.

Talavera gen. n. type *Icius minutus* B., PECKHAM and MADISON Trans. Wis. Acad. Sci. 16 Pt. 1. p. 575.

SOLIFUGAE.

Solifugae von Tripolis und Barka, BIRULA Zool. Jahrb Syst. 28 p. 505. —of Morocco, SIMON Madrid Mem. Soc. Esp. Hist. Nat. 6 p. 41.—from Egypt and Soudan, list, TULLGREN Res. Zool. Exped. Egypt Pt. 3 No. 21 A p. 1.—Ethiopie, SIMON Bruxelles Ann. Soc. ent. Belgique 53 p. 42.—Costa Rica, BANKS Philadelphia Proc. Acad. Nat. Sci. 61 p. 234.

PSEUDOSCORPIONES.

Pseudoscorpiones aus West Deutschland, ELLINGSEN Bonn. SitzBer. Ges. Natk. 1908 1909 Bot. Zool. Ver. p. 69.—British records, JACKSON Newcastle Trans. Nat. Hist. Soc. 3 pt. 2 p. 438.—of Scotland, record, notes on habits and habitats, GODFREY Ann. Scot Nat. Hist. 1909 pp. 22 and 153.—of East Yorkshire, list, STAINFORTH Hull Mus. Publ. 59 p. 101.—of Woolwich, KEW Survey and Record of Woolwich 1909 p. 258.—of Ireland KEW Irish Nat. 18 p. 249.—trovati in Italia e loro distribuzione geografica, PICNOTTI Modena Atti Soc. Nat. Mat. 11 p. 76.—della provincia di Roma, ROSSI Firenze Boll. Soc. Entom. 40 p. 182.—of Roumania, MONTANDON Bucharest Bul. Soc. Sci. 18 p. 147.—of Morocco, SIMON Madrid Mem. Soc. Esp. Hist. Nat. 6 p. 42.—from Egypt and Soudan, TULLGREN Res. Zool. Exped. Egypt Pt. 3 No. 21 A p. 3 figs.

Atemnus gracilis sp. n. Mexico, BANKS New York J. Ent. Soc. 17 p. 146.

Chelanops olesus Mexico p. 146, *calidus* Mexico, *confraternus* Brazil, *garcianus* Cuba, p. 147, spp. n., BANKS T.c.—*C. partitus* Arizona, *diversus* Florida, spp. n., BANKS Canad. Entomol 41 p. 304.

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Myriomanta, affinities with *Myriopoda*. Bullettino Reale Firenze 6 p. 1 pls. I-VII 14 text figs.

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ARRANGED BY

D. SHARP

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Die geographische Verbreitung der Tiere und die geologischen Perioden; **Klapalek, 1560.**

Ueber boreal-alpine Verbreitung von Tieren und eine unrichtige Behauptung in R. E. Scharffs „European Animals"; **Kolbe, 1597.**

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In the next following cases localities have been omitted by the bureau and I have not been able to supply them:—

No indication of locality has been sent by the French bureau for the spp. n. of Pic Naturaliste 31 pp. 19–34; also in the cases of many other species.

No locality sent by bureau.—Planet, 2234; *Pseudolucanus* sp. n.

Olivier, 2096; Lampyrides 9 spp. nov., no localities sent by bureau.

Arctic & Antarctic.

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Nielsen, 2052; The Insects of East Greenland, Dipt. Acalypt. 5 spp. n.

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Tahiti. *Hymenoptera*. Krieger, 1625; *Ecthromorpha* sp. n.

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Palau Ins. *Hymenoptera*. Krieger, 1625; *Ecthromorpha* sp. n.

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Louisiade Arch. *Lepidoptera*. Hampson, 1244; *Chasmacra* sp. n.

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Samoa. *Termitidae*. Silvestri, 2717; 2 spp. n., gen. n.—*Orthoptera*. Holdhaus, 1343; Kritisches Verzeichnis der Orthopteren, 9 spp. n.

Fiji Islds. *Strepsiptera*. Pierce, 2224; sp. n.—*Hymenoptera*: Cockerell, 505; *Prosopis* sp. n.; Krieger, 1625; *Ecthromorpha* sp. n.—*Neuroptera*. Banks, 136; *Hemerobidae* gen. n.—*Diptera*. Froggatt, 987; *Dexia* sp. n.—*Heteroptera*: Reuter, 2385; *Geocoris* sp. n.; Reuter, 2398; *Idiophoretis* sp. n.

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Lord Howe Isld. *Coleoptera*. Lea, 1698; gen. n. Cryptorhynchidae.

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Barovsky, 143; Palaearktisches Asien, *Lithophilus* 6 spp. nn. (Russ.).

Bernhauer, 212; *Leptusa* 4 spp. n.

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Fleischer, 902; *Anaspis*, 3 spp. n.

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Poppius, 2248; *Micralymma.*

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Reitter, 2356; Persia *Rhizotrogus* 2 spp. n., Marocco *Ancxia* sp. n.

Reitter, 2377; Die Käfer des Deutschen [und Palaearctic] Reiches.

Reitter, 2364; 6 spp. n., *Scarites*, *Epuraea*, *Saprinus*, *Leucohimatium*, and *Cerocoma*.

Reitter, 2363; *Scarabaeidae* 11 spp. n.

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Reitter, 2368; 13 spp. n., *Edaphus*, *Heterostomus*, *Mesothes*, *Otiorrhynchus*, *Plinthus*, *Cryphiphorus*, *Trigonoscelis*, *Tenebrionidae* 2 genn. n. and *Tryptera*.

Reitter, 2370; *Thorictus* 2 spp. n., Mesopotamia and Transcaucasus.

Reitter, 2377; numerous spp. n.

Sack, 2516; Corsica, Cyprus, Persia, Pamir, *Bombylidae* 10 spp. n., genn. n.

Semenov, 2660; Fundortsangaben.

Stierlin, 2816; *Sitones* 3 spp. n., *Cathormiocerus* 3 spp. n.

Suvorov, 2871; Chingan, Mongolia, *Neodorcadion* 5 spp. n.

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Mongolia, China etc., Tibet, *Ichneumonidae* spp. n. etc. Asia

Emery, 810; Bermuda, *Formicidae*

Mocsáry, 1926; Silesia etc. and W. Asia, *Tenthredinidae* many spp. n.

Strand, 2821; *Halictus*, 30 spp. n.

Lepidoptera

Gillmer, E. H. Ent., 21, pp. 240-241 & 280, *Noctuidae* described larvae.

Krulikovsky, 1630; 4 spp. n., *Helcon*, *Microdaphnis*, *Chaetotis* and *Gnopharia*.

Lucas, 1750; France et Algérie, *Pyralidae* 6 spp. n.

Moltrecht & Kun, 1932; Der ostpalearktische Isetag.

Neuburger, 2034; Colekanite (*Colias alarium*)

Pagenstecher, 2121; Verbreitungsbeziehungen und die Lebensformen von *Parnassius apollo*.

Rebel, 2325; Alpes *Lepidoptera* sp. n. and Karnten *Gelechia* sp. n.

Sinegub, 2721; Bestimmungstabellen für russische Schmetterlinge (Russ.).

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Weele, 3137; Korea *Perlodidae* gen. n. *Nemoleontidae* gen. n.

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Lokay, 1743; *Limonius* sp. n.

Netolitzky, 2032; Höhlen von Steiermark und Dalmatien.

Reitter, 2372; Tabellen zur *Herpebrachyd* der Europa.

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Sahlberg, 2519; Für Finland neue *Prionychus.*

Sahlberg, 2518; Finland *Luperus circumfusus* novelty.

Semenov, 2657; Transbaikalien, Verbreitung der *Cicindelini.*

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Nordenström, 2064; Parasitic Hymenoptera S. Halland and Östergötland.

Nordström, 2065; *Prosalius succicus* neu für Finland (Schwedisch).

Sahlberg, 2520; *Amasis amoena* in Finland.

Schneider, 2581; Arktisches Norwegen Hymenoptera aculeata.

Strand, 2835; Siberia *Prosopis* sp. n.

Tullgren, 2958; Swedish *Phytophaga* (Swedish).

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Christie, 515; Hedemarken, Norway, list (Norweg).

Forsius, 952; Macrolepidopterfauna des südlichen Finlands.

Luther, 1771; *Acherontia atropos* auf dem Leuchtschiff Aransgrund im Finnischen Meerbusen.

Meinhardt, 1864; Gouv. Jenisseisk, *Heterocera* (Russ.).

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Wahlgren, 3074; Butterflies from the oak-region of Värmland, Sweden.

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Mjöberg, 1922; Swedish *Planipennia* (Swedish).

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Hendel, 1290; Mongolia gen. n. *Cordylurinae.*

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Wahlgren, 3075; Swedish insectfauna *Aschiza* (Swedish).

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Tullgren, 2955; Schwedische Pemphiginen, 3 spp. n.

Tullgren, 29C56; Swedish scale-insects, Notes (Schwedisch).

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Reuter, 2388; Finländische Copeognathen.

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Bengtsson, 192; Scandinavia, *Ephemeridae* 5 gen. n., 12 spp. n.

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Linstow, 1737; Uffeln's Grossschmetterlinge Westfalens. Bemerkungen.

Meder, 1859; Thüringen und Norddeutschland, *Colias edusa*.

Mitterberger, 1914; Salzburg Microlepidopteren.

Richter, 2409; Umgegend Stettins.

Schuster, 2643; Germany wiederkehrenden „Tertiärzeit".

Siegel, 2704; Oberen Vogelsberg, Fangergebnisse.

Spormann, 2783; *Limenitis dumi* in Pommern.

Warnecke, 3097; Verbreitung von *Chrysophanus virgaureae* in Nordwest-Deutschland.

Warnecke, 3098; *Macrolepidopteren*.

Warnecke, 3100; *Agrotis molothina* Lüneburger Heide, Verbreitung im Deutschland.

Doleschall, 730; Brünner Umgebung, Verzeichnis.

Dziarzynski, Jahresber. ent. Ver. Wien 19 p. 143; Umgebung Wiens.

Förster, 920; Tirol Lepidopterologische Mitteilungen von einer Sammelreise.

Gadella, 1048; Steirischen *Nymphalidae*.

Gadolla, 1049; Steirischen *Lycaenidae* und *Hesperidae*.

Galvagni, 1057; Karawanken und Steiner-Alpen Sammeltage.

Galvagni, Verh. z.-b. Ges. Wien 59 p. (233); Niederösterreich *Argynnis thore*.

Hirschke, Verh. z.-b. Ges. Wien 59 p. (238); Oesterreich-Ungarn, *Lycaena bischoffi*.

Hoffmann, 1337; Derzeitigen Stand der Materialien zu einer mährischen Lepidopterenfauna.

Hoffmann, 1338; Macrolepidopteren des steirischen Ennstales.

Hoffmann, 1340; *Erebia arete*.

Hoffmann, 1342; Glockneygebiet.

Kordesch, 1605; Der Naarntales Lycaenidenfauna.

Menšik, 1887; Chrudimer Kreis Böhmen.

Pieszczek, 2229; Judenburg in Steiermark, in besonderer Seetaler Alpen.

Preissecker, 2277; Niederösterreich novelties.

Rebel, 2321; Croatien, *Oreopsyche* sp. n.

Rebel, 2322 & 2323; Ostalpen *Hiptelia* sp. n.

Rosa, 2453; Hungary *Rhopalocera* list.

Růžička, 2513; Chrudimer Kreis.

Sheldon, 2681; Hungary *Rhopalocera*.

Skala, 2732; Brünn, Nachtrag zur Doleschall.

Sterneck, 2808; Prag Beitrag.

Sterzl, 2809; Waldviertel in N.-Oe.

Tutt, Ent. Rec. 21 pp. 228–230; Tyrol *Rhopalocera*.

Blocker, 249; Gouv. Olonetz, Macrolepidoptera.

Jachontov, 1407; Lepidopteren von Central-Russland und deren Aberrationen (Russ.).

Krulikowsky, 1627; Verzeichnis, Gouvernements Kasan.

Krulikovskij, 1628 & 1629; Gouv. Vjatka (Russ.).

Krulikovskij, 1630; 3 spp. n., *Hadena*, *Chersotis* and *Orthosia*.

Krulikovskij, 1631; Gouv. Vologda, Lepidoptera (Russ.).

Krulikovskij, 1632; Uralsk *Caradrina* sp. n.

Krulikovskij, 1633; Gouv. Perm (Russ.).

Krulikovsky, 1634; Gouv. Viatka und deren Aberrationen (Russ.).

Kuznecov, 1652; Crimea *Hipparchia* sp. n.

Miller & Zubowskij, 1909; Gouv. Bessarabien, Macrolepidoptera (Russ.).

Sinegub, 2720; Russland, Lepidoptera (Russ.).

Voroncovskij, 3053; Orenburg (Russ.).

Trichoptera.

Rousseau, Ann. Soc. ent. Belgique 53 p. 236; Belgium 3 noveltics.

Felber, 867; Schweiz, Trichopteren.

Ulmer, 2979; Thuringia, *Heliconis* sp. n.

Ulmer, 2982; Die Süsswasserfauna Deutschlands.

Dziedzielewicz, 784; Carpathians, gen. n. Limnophilidae.

Neuroptera.

Heymons & Heymons, 1321; *Neuroptera*, Süsswasserfauna Deutschlands.

Diptera.

Dahl, 645; Germany 6 spp. n., *Limosina* and *Tetraneurella*.

Kieffer, 1519; Germany *Chironomidae* many spp. n.

Kieffer & Thienemann, 1528; Westfälischen Chironomiden, many spp. n.

Kleine, 1569; *Euphria* und *Andrenosoma*, Deutsch - Oesterreichischen Faunengebietes.

Kramer, 1610; Germany *Sarcophaga* sp. n.

Lange, 1688; Ober Erzgebirges, *Syrphus* sp. n.

Riedel, 2412; Niederrhein, Dipterologische Skizzen.

Schroeder, 2608; Dipteren-Fauna Pommerns, *Syrphidae*.

Speiser, 2777; Germany *Culicidae*.

Cižek, 639; Des Altvaters und des Tesstales.

Strobl, 2847; Austria *Muscidae Acalypterae* 22 spp. n.

Vimmer, 3039; Böhmens Seltene Fliegen.

Vimmer, 3038; Böhmens Dipteren.

Cižek, 638; Die mährischen *Leptogaster* und *Dioctria*.

Townsend, 2933; *Tachinidae* gen. n.

Aphaniptera.

Oudemans, 2112; Holland *Ischnopsyllus* sp. n.

Rothschild, 2476; Austria *Ceratophyllus* 4 spp. n.

Rothschild, 2477; Roumania *Ceratophyllus* sp. n.

Hemiptera.

Schouteden, p. 422 Ann. Soc. ent. Belgique 53; Belgium *Lepyronia coleoptrata* novelty.

Kuhlgatz, 1643; *Rhynchota* Süsswasserfauna Deutschlands.

Puhlmann, 2292; Cicadinenfauna Krefelds.

Reichensperger, 2344; Interessante Hemiptera-Arten aus dem Rheinland.

Gorka, 1140; Hungary *Omorgius niloticus*.

Šulc, 2852; Siebenbürgen *Psylla* sp. n.

Kiričenko, 1536; Crimea *Heteroptera* (Russ.).

Aphidae.

Börner, 261; Vosges *Phylloxera* sp. n.

Mordwilko, 1938; Russia *Macrosiphum* 2 spp. n.

Thysanoptera.

Bagnall, 98; in hot-houses Brussels, 2 spp. n., *Euthrips* and *Cephalothrips*.

Grevillius & Niessen, 1177; *Physopus* sp. n.

Psocidae.

Heymons, 1318; *Troctes* sp. n. als Schädling in Buchweizengrütze.

Perlidae.

Enderlein, 818; Germany *Isogenus* sp. n.

(**Ris**, 2419; Schweizerische Perliden.)

Klapálek, 1557; Austria. *Capnia* sp. n.

Ephemeridae.

Petersen, 2159; Denmark. *Ephemerella* gen. n. sp. n.

Dziedzielewicz, 784; Carpathians. *Heptagenia* sp. n.

Odonata.

†**Reis**, 2353; Muschelkalk gen. n.

Remkes, 2378; Der Halberbruch.

Ris, 2420; *Odonata*, Die Süsswasserfauna Deutschlands.

Puschnig, 2293; Kärntnerische Libellenstudien.

Barteuel, 146; Odonaten des mittl. Ural (Russ. u. engl. Resp.).

Bartenev, 147; Kar. (Russ.).

Voroncovskij, 3054; Orenburg sp. n. (Russ.).

Zograf, 3237; Don, Gebiete (Russ.).

Orthoptera.

Petersen, 2162; Denmark.

†**Handlirsch**, 1249; Altdorf Trias *Pedinoblatta* gen. n.

Krauss, 1614; Germany. *Nemobius bigelowi* novelty.

Werner, 3159; Austria.

Holdhaus, 1344; Walcrykl.

Pylinov, 2295; Land der Donischen Kosaken (Russ.).

Coleoptera.

Heymons u. Heymons, 1320; Coleoptera. Die Süsswasserfauna Deutschlands.

f. France.

Insecta, miscellaneous.

Abot, 7; Deux Grandes rares pour l'Anjou.

†**Meunier**, 1890; Commentry. Stephanian *Palaeodictyoptera* sp. n.

†**Meunier**, 1894; Commentry 8 spp. n., gen. n.

Coleoptera.

Abeille, 5; Provence. *Rhipidius* sp. n.

Agnus, 17; Coléoptères en partie nouveaux pour la France.

Bedel, 183; Sainte-Menehould (Lists).

Carpentier, 471; Département de la Seine. Catalogue.

Desbrochers, 685; France et Corse. Tyloïdes 5 spp. n.

Deville, 689; Seine. *Staphylinidae* pl. 1.

Dubois, 750; Deux *Lepture*.

Du Buysson, 753; France. *Thyamis* sp. n.

Duchaussoy, 759; Normandie.

Fauvel, 863; *Stenus subglaber* novelty.

Formánek, 945; Monte Viso. *Trechyphlaenus* sp.

Gavoy, 1072; Tarn. Coléoptères. Supplement.

Jeannel, 1427; *Speonomus* silphides cavernicoles pyrénéens et sur leur distribution géographique 1 sp. n.

Jeannel, 1428; *Trechus* sp. n.

Jeannel, 1430; Pyrénées. Coléoptères cavernicoles nouveaux ou peu connus des.

Lambertie, 1672; *Leonium pyrenaeum*.

Lambertie, 1673; Habitat des espèces du *Dessus* de la Gironde.

Lesne, 1719; *Stephanopachys substriatus* Payk. nouveau français.

Peneau, 2150; Loire Inférieure (suite).

Peyerimhoff, 2170; Basses-Pyrénées. *Trechus* sp. n.

Peyerimhoff, 2171; Basses-Pyrénées. Coléoptères nouveaux pour.

Pic, 2178; Saône et Loire.

Pic, 2194; Hautes-Alpes et Ubaye.

Pineau, 2230; Loire Inférieure.

Valery-Mayet, 2980; L'Hérault. Catalogue.

Vitorat et Fauconnet, 3043; Catalogue analytique et raisonné de Saône-et-Loire et des départements limitrophes.

Hymenoptera.

Pic, 2192; Ichneumoniens des Alpes françaises.

Lepidoptera.

Brown, 372; Note sur les *Sacraria* et les *Sarathamnaria*.

Brown, 373; Note sur une mise au point de quelques espèces méridionales de papillons encore méconnues.

Chapman, 494; S. France *Callophrys* sp. n.

Chrétien, 511; France 2 spp. n. *Epiblema* and *Lita*.

Daydie, 664; Nouveaux ou peu connus de la faune girondine.

Gibbs, 1091; Vosges, trip.

Goury, 1147; Fontainebleau *Gelechia maculatella*.

Joannis, 1441; *Gelechia maculatella*.

Joannis, 1441a; Lépidoptères du Morbihan.

Joannis, 1444; Vaucluse *Sesia* sp. n.

Joannis, 1446; Vannes *Scythris* sp. n.

Lucas, 1749; France, *Psorosa* sp. n.

Oberthür, 2079; Vernet-les-Bains *Sesia* sp. n.

Rondou, 2449; Nouveaux des Pyrénées.

Rondou, 2450; *Hepialus pyrenaicus*.

Rothschild, 2474; *Sesia andrenaeformis* à Chantilly.

Rowland-Brown, 2505; Cantal and Lozère trip, *Rhopalocera*.

Siépi, 2706; *Ocrisia robiniellae* à Marseille.

Spröngerts, 2784; Digne.

Neuroptera.

Navàs, 2017; Puy-de-Dôme, *Hemerodromia* gen. n.

Diptera.

Becker, 177; Digne und Dauphiné, *Dolichopodidae* 3 spp. n.

Blanchard, 246; *Phlebotomus*.

Massonat, 1847; Pupipares, région lyonnaise.

Villeneuve, 3035; France, *Conopidae*: *Melanosoma* sp. n.

Aphaniptera.

Rothschild, 2477; Lautaret *Ctenophthalmus* sp. n.

Hemiptera.

Lambertie, 1667.

Lambertie, 1668; Notes.

Lambertie, 1670; Nouveaux ou peu connus de la Gironde.

Lambertie, 1674; Dispersion de deux espèces d'Homoptères du département de la Gironde.

Lambertie, 1675; *Phyllomorpha laciniata*.

Lambertie, 1676; Nuisibles et utiles Hémiptères du sud-ouest de la France.

Lambertie, 1677; Hémiptères nouveaux pour la Gironde.

Marchal, 1805; *Coccidae*, Midi de la France et Corse.

Mjöberg, 1920; France *Aneurus tuberculatus*.

Royer, 2508; Hémiptères nouveaux ou peu connus.

Royer, 2510; *Graphosoma*.

Odonata.

Coulon, 611; Odonates du Musée d'Elbeuf, faune française.

Orthoptera.

Azam, 80; *Orphania*, nouveau pour la France.

De Vichet, 687; Mante religieuse à Besançon.

†Leriche, 1717; *Stephanoblatta* houiller de Commentry.

(g) South Europe and Mediterraneau Basin.

Insecta, collectively.

Bariego, 140; Spain, list.

Mercet, Bol. Soc. Aragon 8 p. 135; Moncayo list, *Chaetocnema* sp. n.

Navás, 2022; Aragon 3 spp. n., *Perla*, *Staurodrus* and *Pamphagus*.

Navás, 2024; Teruel list, Mallorca Orthoptera.

Coleoptera.

Fuente, 1040; Ciudad Real *Pachybrachys* sp. n.

Jeannel, 1429; Spain Cavernicolous *Silphidae* 7 spp. n., gen. n.

Lauffer, 1695; Spain 2 spp. n., *Steropus* and *Ceratophyus*.

Roubal, 2493; Spanien *Philonthus* sp. n.

Schramm, 2589; Sierra de Gredos *Dorcadion* sp. n.

Beffa, 185; Italy Note.

Beffa, 186; Toscana omessi nel Catalogo del Bertolini.

Bernhauer, 213; Italy *Anthobium* sp. n.

Cecconi, 479; Isole Tremiti.

Della Beffa, 672; Note coleotterologiche.

Ericson, 843; Kalabrien *Pteryx* sp. n.

Fiori, 892; Italy *Dasytes* sp. n.

Fleischer, 903; Capri *Colon* sp. n.

Kniž, 1535; Adamello *Helophorus* sp. n.

Leoni, 1714; Italy Appunti.

Leoni, 1715; Italy *Aleuda* spp. n.

Löden, 1738; Italy *Polydrusus* sp. n.

Porta, 2252; Revisione dei Brachynini italiani.

Reitter, 2373; Calabria *Sphaeroderma* 2 spp. n.

Reitter, 2374; Italy 2 spp. n., *Sitona* and *Otiorhynchus*.

Reitter, 2375; Italy 3 spp. n., *Ludius*, *Agathidium* and *Sphaeroderma*.

Silvestri, 2712; Italy *Chilocorus* [illegible].

Vitale, 3042; Nuovi o rari per la Sicilia.

Formanek, 945; Sardinia, *Trachyphloeus* sp. n.

Krausse, 1617; Nächtliches Käferleben in den Strassen von Oristano, Sardinien.

Deville, 690; Corsica Catalogue *Phloeotrupes Cossyphus*.

Hakertinger, 1275; Corsica *Aphthona* sp. n.

Breit, 342; Mallorca long list.

Abeille, 2; Algeria 6 spp. n., *Treglops* and *Halticidae*.

Deville, 688; North Africa *Hydraena* 2 spp. n.

Du Buysson, 431; Algeria *Gonochrysis* sp. n.

Escalera, 844; Melilla 2 spp. n. *Globicula* and *Granularida*.

Escalera, 845; Marocco *Meloidae* 3 spp. n.

Escalera, 846; Marrucecos *Zonabris* 7 spp. n.

Normand, 2066; Tunis *Grotiba* sp. n.

Normand, 2067; Tunis *Euthia* sp. n. and *Cephennium* sp. n.

Peyerimhoff, 2165; Revision des *Eustemnus* du Nord africain.

Peyerimhoff, 2169; North Africa *Scydmaenus* 4 spp. n.

Peyerimhoff, 2172; Faune cavernicole du Djurjura.

Fleischer, 913; Herzegowina *Stenus* sp. n.

Netolitzky, 2032; Bosnien-Herzegowina *Bembidium* sp. n.

Muller, 1980; Dalmatia *Georyssidae*, *Dryopidae*, *Heteroceridae* et *Hydrophilidae*.

Lokay, 1742; Montenegro *Alophus* sp. n.

Muller, 1979; Karstgebiet auf Balkan 4 spp. n., *Trechus*, *Bythinus* and *Aphrodius*.

Apfelbeck, 53; Peninsula balcanicae 13 spp. n. *Hydroporus*, *Noterus*, *Anthophagus*, *Hydraena*, *Anacaena*, *Hylaia* and *Sphaeroderma*.

Breit, 343; Balkanhalbinsel *Bembidion* and *Trechus* spp. n.

Roubal, 2489; Rumelien *Dancecus* sp. n.

Rambousek, 2312; Bulgarien *Staphylinidae* (Böhmisch), 5 spp. n., *Thinodromus*, *Oxypoda* and *Myrmecopora*.

Rambousek, 2309; Bulgarien *Paraphidae*, *Scaphidiidae*, 5 spp. n.

Rambousek, 2310; Macedonien *Faustrelina* sp. n.

Rambousek, 2311; Makedonien *Bythinus* n. sp.

Schatzmayr, 2541 ; Makedonien, 9 spp. n., *Carabidae* and *Ochthebius*.

Schatzmayr, 2542 ; Makedonien *Carabidae* 3 spp. n. *Bembidium* and *Platynus*.

Alluand, 33 ; Eyptian mummies, *Col.* in.

Ferrante, 883 ; Cairo *Malthinus* sp. n.

Reitter, 2371 ; Cairo *Cephisus* sp. n. *Sericoderus* sp. n.

Hartmann und **Weise**, 1253 ; Aegypten, Halbinsel Sinai, Palästina und Syrien, *Lixus* sp. n.

Crotch, 623 ; Sinai 1872 ?, espèces nouvelles.

Abeille, 4 ; Syrie, *Aristus* sp. n.

Olivier, 2087 ; Lebanon *Luciola* sp. n.

Reitter, 2357 ; Palestine *Onthophilus* sp. n.

Pic, 2205 ; Altisids de la Turquie d'Asie et de l'Europe méridionale.

Reitter, 2354 ; Asia minor *Hypulus* sp. n.

Hymenoptera.

Alfken, 28 ; Spain *Nomada* sp. n., Triest *Halictus* sp. n.

Forel, 934 ; Spain *Formicidae* long list.

Mercet, 1888 ; Spain *Tachysphex* 4 spp. n.

Mercet, 1889 ; Spain *Nysson* 10 spp. n.

Ferton, 884 ; Algeria *Megachile* 2 spp. n.

Pérez, 2155 ; Variétés de Bourdons de la Corse.

Krausse, 1619 ; Hummelfauna Sardiniens und Corsicas.

Lepri, 1716 ; Italy *Sirex sah.* romana.

Masi, 1843 ; Italy *Chalcididae* 6 spp. n.

Silvestri, 2714 ; Italy introduced parasites.

Trani, 2941 ; Naples *Laelius* sp. n.

Forel, 938 ; N. Africa and Italy, *Formicidae* list, 2 spp. n., *Formica* and *Aphaenogaster*.

Santschi, 2533 ; Maroc, Tunisie, Syrie, etc., *Leptothorax rottenbergi* et espèces voisines.

Schulthess Rechberg, 2621 ; *Pompilus* sp. n. Tripolis und Barka.

Santschi, 2531 ; Tunisie capturées en 1906 : *Leptanilla*.

Santschi, 2530 ; Nouvelles fourmis. Egypte, Canaries, Tunisie.

Morice, 1943 ; Syria *Chrysidae* list, 2 spp. n., *Spinolia* and *Chrysis*.

Schmiedeknecht, 2576 ; Lebanon *Spilochalcis* sp. n.

Emery, 809 ; Anatolia *Formica* sp. n.

Lepidoptera.

Rebel und **Daub**, 2329 ; 5 spp. n. *Thargelia*, *Eucrostes*, *Nephopteryx*, *Bostra* and *Cybolomia*.

Wheeler, Ent. Rec. 21 pp. 248–253, and 281–285 ; *Rhopalocera*.

Chapman, 493 ; *Callophrys* sp. n.

Moraes, Broteria 8 p. 74 ; Minho long list.

Rothschild, Ent. Rec. 21 pp. 153 and 154 ; Cintra short list.

Lowe, Ent. Rec. 21 pp. 34–36 and 62–66 ; Spain.

Kheil, 1513 ; Benasque short list.

Ribbe, 2406 ; Andalusien *Macrolepidoptera*.

Rostagno and **Zapelloni** ; 2465, Lepidoptera romanae ; *Nymphalidae*, *Libytheidae*, *Erycinidae*.

Stefanelli, 2799 ; Miscellanea d'Italia.

Verity, 3017 ; Isola d'Elba.

Mayer, 1858 Sizilien Sammelausflug.

Schawerda, 2543 ; Sammelreisen in Bosnien und in der Herzegownia.

Marchi, 1814 ; Ropaloceri del Trentino.

Hoffmann, 1341 ; Adelsberg und Triest-Muggia, Ausflug.

Bachmetjev, 87 ; Lepidopterenfauna Bulgariens (Russ.).

Drenowsky, 742 ; Lepidopteren-Fauna des höchsten Teils des Zentral-Balkans.

Chrétien, 512 ; Biskra 5 spp. n. *Eucrostis* and *Acidalia*.

Kheil, 1512 ; Spanish Guinea 4 spp. n., *Stracena*, *Marbla*, *Aiteta* and *Acidalia*.

(Püngeler, 2288; *Sesia seitzi* n. sp. Algerien.)

Rothschild, 2483; Algeria 3 spp. n., *Cleophana*, *Thalpochares*, *Palpangula*.

Seitz, 2653 & 2654; Mauretanien, *Catocala oberthüri*, *Oxygia dubia splendida*, *Sphinx*.

Trautmann, 2945; Algeria *Hyalina* sp. n.

Lucas, 1749; Tunisia, 4 spp. n., *Chelona*, *Acidalia*, *Platytes* and *Staudingeria*.

Draudt, 741; Egypt *Eremobia* sp. n.

Joannis, 1442; Egypte *Acrometa* sp. n.

Joannis, 1443; Egypt *Eublemma* 2 spp. n.

Culot, 635; Syria *Systoma* sp. n.

Homberg, 1353; Syria *Acidalia* sp. n.

Strand, 2840; Elburz and Taurus.

Rebel, Verh. z. b. Ges. Wien 59 pp. (235) and (236); Trapezunt Lepidopterenausbeute.

Bohatsch, 265; 3 spp. n., *Leucochlaena*, *Gnophos* and *Chesias* aus Russ. Armenien.

Trichoptera.

Navás, 2013; Spain and Portugal monograph.

Navás, 2014; Syria *Hemerobius* sp. n.

Neuroptera.

Navás, 2019; Spain list of *Chrysopa*.

Navás, 2013; Spain and Portugal, *Neuroptera*, 5 spp. n.

Navás, 2015; Egypt plant list.

Navás, 2020; Madrid, *Myrmeleon* sp. n., gen. n. near *Hymenoleon*.

Diptera.

Hermann and **Villeneuve**, 1301; 5 spp. n., *Systoechus*, *Bombyliopsis*, *Dasyneura*, *Deuterocephalus* and 2 gen. n. *Bombyliidae* and *Muscidae*.

Czerny and **Strobl**, 638; Spanische Dipteren, ist Beitrag, many spp. n., gen. n.

Tavares, 2902; Spain *Cecidomyidae* 3 spp. n.

Villeneuve, 3034; Corsica *Meroden* sp. n.

Corti, 605; Italy 5 spp. n., gen. n. *Oscinidae*.

Kieffer, 1521; Algeria *Sciara* 2 spp. n.

Austen, 75; Cyprus *Muscinae* gen. n.

Bezzi, 229; Syria and Egypt list 9 spp. n.

Aphanipteria.

Cobelli, 523; Trentino.

Fulmek, 1045; Tripolis and Barka *Pulex* sp. n.

Rothschild, 2477; Bukra gen. n.

Hemiptera.

Lindinger, 1732; Eur mer *Aspidiotus* sp. n.

Horváth, 1371; Portugal *Schizoneura* sp. n.

Leonardi, 1712; Italy *Coccidae* 14 spp. n.

Picco, 2214; provincia di Roma.

Marchal, 1808; Cochenilles du midi de la France et de la Corse, 4 spp. n.

Stadler, 2793; Dalmatia, novelties.

Schouteden, 2586; Morocco *Ectrichodia* sp. n.

Poppius, 2244; Sahara *Atomophora* sp. n.

Lambertie, 1666; Hémiptères recueillis en Tunisie par M. Blanc.

Reuter, 2390; Sicily, Africa ber and Syria, *Reduviidae* 3 spp. n., *Isthmocoris* and *Holotrichius*.

Reuter, 2393; Syria 2 spp. n., *Anthocoris* and *Myrmophyes*.

Thysanoptera.

Buffa, 397; Italy 2 spp. n., gen. n.

Cobelli, 522; Trentino.

Buffa, 398; Tunis *Anthothrips* sp. n.

Psocidae.

Navás, 2013; Spain and Portugal monograph.

Embiidae.

Navás, 2013; Spain and Portugal *Embia* 3 spp. n.

Enderlein, 829; Egypt gen. n.

Plecoptera-Perlidae.

Navás, 2020; Madrid *Perlodes* sp. n.

Navás, 2014; Beyrouth gen. n.

Odonata.

Martin, 1837; Syrie, *Psilocnemis* sp. n., *Anax immaculifrons.*

Orthoptera.

Burr, 409; Marocco and S. Eur. *Forficula* 2 spp. n.

Shelford, 2685; Spanish Guinea *Blattidae* 5 spp. n.

Krauss, 1615; Dermaptera und Orthoptera aus Aegypten, der Halbinsel Sinai, Palästina und Syrien, 2 spp. n. *Pamphagus* and *Duronia.*

Apterygota.

Berlese, 206; *Protura* 3 spp. n.

Wahlgren, 3079; Egypt and Soudan, *Collembola* 13 spp. n., *Thysanura* 2 spp. n.

(h) Caucasus, West & Centr. Asia.

Insecta, collectively.

Karawajew, 1485; Transkaspien. Myrmekophile Insekten, *Thysanura* sp. n.

Kastanje, 1490; Syr-Darja und Turgai-Gebiets (Russ).

Coleoptera.

Clermont, 521; Liste Transcaucasie.

Lučnik, 1759; Gouv. Stavropol, *Cicindelidae*, *Carabidae* (Russ.).

Lučnik, 1762; Gouv. Stavropol. *N cydalis major.*

Semenov, 2658; Ciscaucasia, *Lacmostenus* sp. n.

Kerremans, 1591; Perse et Asie mineure, *Sphenoptera* 15 spp. n.

Kniž, 1585; Nordwest-Persien *Ochthebius* sp. n.

Reitter, 2355; Persia *Laccobius* sp. n.

Reitter, 2360; Persia *Dila* sp. n.

Semenov, 2659; Persia *Lampra* sp. n.

Zaitzev, 3223; Persia *Sternolophus* sp. n.

Semenov, 2656; Centr. Asia 8 8 spp. n., *Taphoxenus*, *Stenolepta*. *Agonini* gen. n., *Crioceris*, *Galeruca*, *Leptodes* and *Pinophilus.*

Sumakov, 2858; Turkestan und Transkaspien.

Sumakov, 2860; Centr. Asia *Tagona* sp. n.

Suvorov, 2870; Centr. Asia and Mongolia *Deracanthus* 4 spp. n.

Suvarov, 2872; Turgai-Gebiet *Compsodorcadion* sp. n.

Suvorov, 2873; Turgai-Gebiet, *Temnorhinus* sp. n.

Suvorov, 2874; Transcaucasia, *Dorcadion* sp. n.

Barovskij, 145; Turkestan, Transcaspia, *Lithophilus* 2 spp. nn.

Fleischer, 904; Samarkand *Limnichus* sp. n.

Fleischer, 905; Turkestan *Ebaeus* sp. n.

Fleischer, 911; Turkestan *Atomaria* sp. n.

Fleischer, 906; Turkestan *Stylosomus* sp. n.

Fleischer, 912; Turkestan *Hypera* sp. n.

Glazunov, 1130; Turkestan *Platysma* (*Derus*) 2 spp. n.

Arrow, 59; Yemen *Phaeochrous* sp. n.

Wagner, 3069; Arabia *Apion* sp. n.

Barovsky, 141; Serafschan, Buchara, *Cantharis* 2 spp. nn.

Reitter, 2359; Buchara sp. n. *Solskyia.*

Hymenoptera.

Kokujev, 1593; Russisch-Asien, 7 spp. nn.

Semenov, 2661; Kirgisensteppe and Turkestan occid. etc., *Chrysididae.* 9 spp. n.

Karawajew, 1486; Transkaspien u. Turkestan, *Formicidae* spp. nn.

Alfken, 30; Syr-Darja-Gebiet, *Prosopis* sp. n.

Lepidoptera.

Jachontov, 1406; Caucasus *Rhopalocera* notes.

Rebel, Verh. z.-b. Ges. Wien 59 p. (231); Sinai *Thargelia gigantea*.

John, 1451; Syr-Darja *Epicnaptera* sp. n.

Trichoptera.

Martynow, 1842; Kaukasus 9 spp. n.

Martynow, 1841; Tibet, Tsaidam, spp. n.

Ulmer, 2977; Centr. Asia *Dolophilodes* gen. n.

Diptera.

Becker, 172; Persia and Arabia, *Apoclea* 5 spp. n.

Hendel, 1288; Turkmenien *Myennis* sp. n.

Hendel, 1295; Turcomania *Chrysomyza* sp. n.

Austen, 75; Sokotra *Muscinae* gen. n.

Aphaniptera.

Wagner, 3071; Kaukasien. 1 gen. 2 spp. n.

Hemiptera.

Poppius, 2250; Persia and Transcaspian, *Tachirina* 3 spp. n.

Ošanin, 2102; Russ. Turkestan *Naucoridae* gen. nov. 1 sp. n.

Orthoptera.

Lučnik, 1760; Nordwestlicher Kaukasus (Russ.).

Stschelkanowzeff, 2849; 6 spp. n. *Locustidae* and *Heluscirtus*.

Africa.

For North Africa *vide* Palaearctic (g).

Insecta collectively.

Enderlein, 832a; S. Africa, *Mesopsen* sp. n. and *Anaplera* gen. n.

Filippi, 890; List of novelties of Italian Ruwenzori expedition.

Johnston, 1462; Liberia list.

Coleoptera.

Arrow, 53; Rhodesia and adjacent, 10 spp. n., *Sisyphus*, *Onitis*, *Apogonia*, *Eccoptocnemis*, *Leucosalia* and *Platydacne*.

Arrow, 58; Natal *Platychora* sp. n.

Arrow, 59; *Phaeochrous* 5 spp. n.

Arrow, 60; Ruwenzori 10 spp. n., *Popillia*, *Adoretus*, *Tmesorrhina*, *Glycyphana*, *Anablyscelis* and *Leptlachna*.

Aurivillius, 71; Natal, Zululand *Cerambycidae*, 2 spp. n.

Bénard, 191; *Rhyssemus* sp. n.

Bernhauer, 210; Ostafrika *Hasumius* 4 spp. n.

Boileau, 268; Kilimandjaro-Meru, *Lucanidae*, 1 g. and sp. n.

Borchmann, 282; *Layrinae* 19 spp. n.

Borchmann, 284; *Layrinae* 6 spp. n.

Borchmann, 285; Kilimandjaro-Meru, *Layrinae* 3 spp. n., *Cantharidae* 4 spp. n.

Bourgeois, 308; Congo *Lycides* and *Lymexylonides* list.

Bourgeois, 309; Congo français *Lycus* sp. n.

Camerano, 438; Uganda e Ruwenzori.

Clavareau, 516; Africa trop. and Transvaal *Chrysomelidae* 17 spp. n., *Sphondylia*, *Calobaspis*, *Crioceris*, *Lema*, *Gynandrophthalma*, *Peplopteva*, *Cryptocephalus*, *Calaspasma*, *Eurygo* and *Chrysomela*.

Eichelbaum, 801; *Gymphaena* sp. n.

Fauvel, 864; 3 spp. n., *Lirpinus* and *Oxytelus*.

Felsche, 868; Abyssinia 3 spp. n. *Onitiscellus*, *Trox* and *Rhyparus*.

Felsche, 869; Coprini 4 spp. n. *Gymnopleurus*, *Sisyphus* and *Geotrupes*.

Gahan, 1052; Abyssinie et Afrique orientale, *Lamiidae* 6 spp. n.

Gahan, 1053; Ruwenzori 27 spp. n. *Lycus*, *Melyris*, *Alosis*, *Layria*, *Mylabris*, *Horia*, *Clytus*, *Stenochorus*, *Ceraphons*, *Phrystola*, *Phrynetopsis*, *Gienes*, *Dirphya*, *Phytoecia*, *Macrolapha*, *Calaspasma*, *Oides*, *Dasycnitha*, *Bassia*, *Anisomorphus*, *Hemiphanta*, *Monolepta* & *Trophideromus* gen. n.

Gestro, 1089; Natal *Dorbiopsis* sp. n.

Gillet, 1100; Sahara et régions voisines 3 spp. n., *Gymnopleurus*, *Sapronius* & *Chironitis*.

Gillet, 1101; Africa trop. *Onitis* 3 spp. n.

Grouvelle, 1205; Afrique orientale et Haute-Vallée du Nil, *Georyssus* et *Heterocerus* 7 spp. n.

Grouvelle, 1206; Afrique orientale allemande 22 spp. n., *Nitidulidae*, *Colydiidae*, *Cucujidae*, *Monotomidae*, *Cryptophagidae*.

Grouvelle, 1207; Africa or. & mer. 44 spp. n., *Nitidulidae*. *Colydiidae*, *Cucujidae*, *Monotomidae*, *Cryptophagidae* & *Typhaea*.

Grouvelle, 1209; Kilimandjaro-Meru, *Clavicornes* 19 spp. n.

Grouvelle, 1210; Afrique orientale allemande. 14 spp. n., *Brachypterus*, *Cillaeus*, *Meligethes*, *Cyllodes*, *Ditoma*, *Lacmophloeus* & *Europs*.

Hagedorn, 1229; *Scolytidae* 13 spp. n.

Heller, 1285; Erythraea *Curculionidae*, 3 spp. n., 2 genn. n.

Hintz, 1326; German Africa *Cerambycidae* 17 spp. n.

Horn, 1361; Trop. Africa, *Dromica* 3 spp. n.

Horn, 1365; Katanga *Dromica* 2 spp. n.

Kerremans, 1500; Somaliland 3 spp. n., *Psiloptera*, *Chalcogenia* & gen. n. near *Bubastes*.

Kerremans, 1502; Africa trop. & mer. *Buprestidae* 9 spp. n.

Kolbe, 1526; S.W. Africa *Corythoderus* sp. n.

Kolbe, 1539; Ueber die Atren und Unterarten der *Dicranorhina* und Verbreitung.

Künckel d'Herculais, 1637; Afrique orientale anglaise Cétonides.

Kuhnt, 1644; Congo *Stephanocrates* sp. n.

Lesne, 1724; Abyssinie, 5 spp. n.

Lewis, 1726; Africa trop. & mer. *Histeridae* 7 spp. n.

Maindron, 1789; Congo *Cicindela* sp. n.

Maindron, 1790; Assinie *Callistomimus* sp. n.

Marshall, 1820; Congo *Curculionidae* 6 spp. n., gen. n.

Marshall, 1824; Ruwenzori *Curculionidae* 7 spp. n., 2 genn. n.

Moser, 1962; 4 spp. n., *Pachnoda*, *Anoplochilus*, *Elassochiton* & *Amaurina*.

Olivier, 2087; Angola *Diaphanes* sp. n.

Olivier, 2091; Africa occ. *Luciola* sp. n.

d'Orbigny, 2099; Congo *Onthophagus* sp. n.

d'Orbigny, 2100; Espèces nouvelles d'Onthophagides et Notes synonymiques.

Pangella, 2124; Passalidi. Cetoniini, ed Elateridi dell' Uganda e del Ruwenzori.

Peringuey, 2157; S. Africa *Meloidae* 29 spp. n., 7 genn. n.

Pic, 2180; Congo 6 spp. n., *Silidius*, *Lytta* & *Zonabris*.

Pic, 2181; Congo 2 spp. n., *Hapalochrous* & *Zonabris*.

Pic, 2184; *Hylophilus* 5 spp. n.

Pic, 2191; Africa 12 spp. n., *Nemognatha*, *Apalus* & *Zonabris*.

Pic, 2207; Dahomey & Natal *Zonitomorpha* 2 spp. n.

Raffray, 2306; Abyssinia *Connodontus* sp. n.

Schenkling, 2547; East Africa *Trichodes* sp. n.

Schmidt, 2559; *Aphodiini*, 8 spp. n.

Schmidt, 2560; *Aphodiidae* 7 spp. n.

Schönfeldt, 2584; Kilimandjaro Meru, *Brenthidae* list.

Schwartz, 2646; *Elateridae* many spp. n.

Sicard, 2699; *Rodolia* sp. n.

Spaeth, 2775; Kilimandjaro-Meru, *Cassidae* list, gen. n., 5 spp. n.

Szombathy, 2894; *Adelocera* sp. n.

Théry, 2911; Lac Rodolphe *Buprestidae* 4 spp. n., 2 genn. n.

Wagner, 3064; Congo *Apion* 3 spp. n.

Wagner, 3065; Africa trop. & mer. *Apion* 16 spp. n.

Warren, 3105; Trop. & S. Africa *Geometridae* 28 spp. n. & *Epiplema* 2 spp. n.

Waterhouse, 3120; Ruwenzori *Agrilus* sp. n.

Weise, 3145; Chrysomeliden und Coccinelliden aus Deutsch Zambesia, 2 spp. n., *Monolepta* & *Blepharida*.

Weise, 3147; Kilimandjaro-Meru, *Chrysomelidae* list, 5 gen. n., 88 spp. n., *Coccinellidae* list, 12 spp. n.

Wellman, 3152; Angola *Melandrae* 12 spp. n.

Wellman & Horn, 3155; Angola *Cicindela* sp. n.

Hymenoptera.

André, 38; Congo *Mutilla* sp. n. & *Dasylabroides* sp. n.

André, 39; S. Africa *Mutillidae* 5 spp. n.

André, 40; Südafrika *Mutillidae* 6 spp. n.

Bingham, 239; Ruwenzori 2 spp. n., *Philanthus* & *Ephialtes*.

Brauns, 322; Südafrika *Epeolus* 2 spp. n.

Brauns, 333; Südafrikan. *Crossocerus* 4 spp. n.

Brues, 385; S. Africa *Sphecidae* gen. n.

Du Buysson, 431; *Hedychrysis* sp. n.

Cameron, 456; S. Africa gen. n. *Meteorus*.

Cockerell, 535; 2 spp. n. *Nomioides* & *Nomia*.

Cockerell, 552; Rungwella *Megachile* sp. n.

Crosby, 621; Africa ex. *Chalcididae* 9 spp. n.

Du Buysson, 758; Monographie *Bethylopsis*, 2 spp. n.

Forel, 933; *Formicidae* 10 spp. n.

Friese, 979; Kilimandjaro-Meru, *Apidae* list, 26 spp. n.

Friese, 980; *Apidae* many spp. n.

Kohl, 1591; Pemba isl. *Sphecidae* sp. n.

Meunier, 1893; Zanzibar coral *Mirmecidae* sp. n.

(v. 11091.)

Meunier, 1895; Zanzibar coral *Mymaridae* sp. n.

Mocsáry, 1926; Africa ex. *Tenthredinidae* 4 spp. n.

Peringuey, 2156; S. Africa *Mutillidae* 29 spp. n.

Silvestri, 2716; Africa ins. *Proctotrupidae* sp. n.

Turner, 2965; Erythrea *Phasia* sp. n.

Zavattari, 3228; Ruwenzori.

Lepidoptera.

Aurivillius, 69; Tropical and S. Africa, 34 spp. n., *Acraea*, *Dirinayna*, *Aphnaeus*, *Tuxeria*, *Leptosperina* gen. n., *Phasianeura*, *Tuerta*, *Chionopsyche* gen. n., *Rerolade*, *Bombycopsis*, *Philoterma*, *Lepiparia*, *Ceratopacha* gen. n., *Schizomera* gen. n., *Trichopithia* gen. n., *Catabolis*, *Tarsinia*, *Pachypasa*, *Crispa* gen. n., *Odontopacha* gen. n., *Pachymeta*, *Rhynchombrex* gen. n., *Paramota* gen. n., *Stenophalina* gen. n., *Opisthodontia*.

Aurivillius, 72; Pemba isl. 2 spp. n. *Pygaera* & *Hemimerina*.

Bastelberger, 156; Congo 3 spp. n., *Thalera*, *Epergypteryx* & *Xylopteryx*.

Bastelberger, 158; Africanar. *Acidalia* 3 spp. n.

Bastelberger, 162; Angola *Geometridae* 4 spp. n.

Bastelberger, 164; *Geometridae* 8 spp. n., gen. n.

Bethune-Baker, 218; Trop. Africa 42 spp. n., *Oberonia*, *Nolodontidae* 2 gen. n., *Gluphisia*, *Marshalliana*, *Metarbela*, *Micrura*, *Parum*, *Nyssia*, *Paraphasia*, *Leptosoma*, *Olapa*, *Eupsilia*, *Lasiu*, *Sidus*, *Ketapanus*, *Barsina*, *Westermannia*, *Hypothripa*, *Acrysthara*, *Oxonia*, *Eurhera*, *Ophiusa*, *Capnodes*, *Dactylis*, *Sarcopsis*, *Hypena*, *Aegocera*, *Phoenicophora*, *Negia*, *Stenomatophora*, *Polymorpha*, *Phrapsodes*, *Sylepta* and *Glyphodes*.

Druce, 745; West Africa *Hesperiidae* 10 spp. n.

Dudgeon, 764; W. Africa 3 spp. n., *Acraea*, *Mycalesis* & *Lycaenesthes* gen. n.

Ehrmann, 799; Congo *Papilio* sp. n.

Elringham, 803; Cameroons *Mimacraea* sp. n.

Fletcher, 916; S. Africa gen. n. *Orneodidae.*

Grünberg, 1215; Africa or. 2 spp. n., *Epiphora* & *Phalera.*

Hampson, 1244; 18 spp. n., *Syntomidae, Arctiidae* gen. n., *Noctuidae.*

Hampson, 1246; *Macro-Heterocera* 53 spp. n.

Hampson, 1247; *Noctuidae Acronyctinae* 33 spp. n.

Heron, 1204; Ruwenzori Rhopalocera 8 spp. n., *Gnophodes, Acraea. Charaxes. Uranothauma. Harpendyreus, Oxypalpus, Ceratrichia* & *Chioneigia.*

Meyrick, 1900; Transvaal, *Pterophoridae, Orneodidae, Tortricidae* & *Tineidae* many spp. n., genn. n.

Schulze, 2630; Cameroon *Charaxes* sp. n.

Schultze, 2631; Bemerkungen über Seitz Fauna africana von „Die Grossschmetterlinge der Erde", sowie Besprechung von neuen Tagfalterformen aus Kamerun.

Strand, 2822; Ober-Guinea und Sudan 5 spp. n., *Papilio, Pieris, Epiphora. Hylemera, Dasychira.*

Strand, 2823; Kilwezi, 4 spp. n., *Aegocera* & *Beralade.*

Strand, 2824; Sambesi-Gebiet 9 spp. n., *Sarangesa, Phasicnecus, Arcyophora, Noctuidae* 2 genn. n., *Polyocha, Cataclysta* & *Oligochroides* gen. n.

Strand, 2825; 8 spp. n., *Deilemera, Eohemera* & *Secusio.*

Strand, 2830; *Amphicallia* sp. n.

Strand, 2831; Deutsch-Ostafrika 8 spp. n., *Mylothris, Lymantriidae* gen. n., *Acanthurctia, Metarbela* & *Noctuidae.*

Strand, 2834; Africa or. *Anaphe* sp. n.

Strand, 2836; Deutsch-Ost-Afrika. 9 spp. n., *Cyrtogone, Boarmia, Euchloris, Oeduleosia. Amsacta. Talis. Tyndis, Noorda* & *Alarona.*

Strand, 2837; West Africa 4 spp. n., *Acrojana, Trisulopsis* & *Scopariopsis* genn. n.

Strand, 2839; Africa or. *Lycaenesthes* 3 spp. n.

Strand, 2841; Deutsch-Ost-Afrika 4 spp. n., *Cupido, Chalcidica, Eumeta* & *Boarmia.*

Strand, 2842; Delagoa Bay, *Hesperiidae* 2 spp. n., gen. n.

Strand, 2843; East Africa *Thaumatopoea* sp. n.

Strand, 2844; *Mylothris* sp. n.

Strand, 2846; East Africa *Xanthospilopteryx* sp. n.

Swierstra, 2885; S. Africa 3 spp. n., *Leptoneura. Lycaena, Phasis.*

Swierstra, 2887; Check list *Rhopalocera.*

Swinhoe, 2888; Uganda 6 spp. n., *Parnara, Calletaera, Lophochlora, Synelis, Induna,* & gen. n. *Quadrifidae.*

Trimen, 2948; S. Africa *Phyllocampa* sp. n.

Trimen, 2949; E. Africa *Pseudacraea* sp. n.

Walsingham, 3086; East Africa *Orneodes* sp. n.

Weymer, 3165; Bombyces 10 spp. n., *Bunaea, Nudaurelia. Goodia, Ludia Jana* & *Gonobombyx.*

Wichgraf, 3177; Rhodesia *Acraea* 2 spp. n.

Trichoptera.

Ulmer, 2977; Cameroons *Protodipseudopsis* gen. n.

Neuroptera.

Banks, 134; S. Africa *Myrmeleonidae* gen. n.

Kirby, 1533; Ruwenzori *Palpares* sp. n.

Navás, 2011; *Mantispa* 4 spp. n.

Diptera.

Austen, 74; *Culicoides* 3 spp. n.

Austen, 75; *Muscidae* 3 spp. n., gen. n.

Austen, 76; blood-sucking flies, descriptions & illustrations.

Austen, 77; Ruwenzori 12 spp. n., *Proagonistes. Asarcina, Senaspis. Megaspis. Dejeania.* gen. n. near *Chaetolyga. Dexia* & *Sarcophaga.*

Becker, 173; Afrique orientale, 28 spp. n.

Becker, 178; Cameroons *Culicoides* sp. n.

Graham, 1155; Ashanti *Eretmapodites* 4 spp. n.

Speiser, 2778; Kilimandjaro-Meru, *Conopidae* 3 spp. n.

Speiser, 2779; Kilimandjaro-Meru, *Orthorhapha* list, 26 spp. n.

Surcouf, 2863; *Tabanus* sp. n.

Surcouf, 2865; Afrique occidentale *Tabanus* 6 spp. n.

Surcouf, 2866; *Chrysozona* 2 spp. n.

Surcouf et **Ricardo**, 2867; Étude monographique des Tabanides d'Afrique, *Tabanus*.

Tavares, 2899; Zambesi *Cecidomyiidae* genn. et spp. n.

Theobald, 2907; Ashanti *Culicidae* 33 spp. n., genn. n.

Tragårdh, 2939; Natal *Phoridae* gen. n.

Aphaniptera.

Rothschild, 2475; Sierra Leone *Loemopsylla* sp. n., S. Africa *Ischnopsyllus* sp. n.

Waterston, 3124; S. Africa *Ceratophyllus* sp. n.

Hemiptera.

(**Breddin**, 338; Neue Rhynchoten Amphithezia.)

Distant, 701; S. Africa *Ricania* 3 spp. n., 2 genn. n.

Distant, 708; Gold Coast *Sahlbergella* sp. n.

Distant, 711; Ruwenzori long list.

Horváth, 1374; Africa *Surthesia* 2 spp. n.

Melichar, 1883; Ost-afrika, 17 spp. n., genn. n.

Reuter, 2385; Kilimandjaro *Gorpis* sp. n.

Reuter, 2393; 2 spp. n. *Loxocheilus* & *Triphleps*.

Reuter & **Poppius**, 2400; *Nabidae* 6 spp. n.

Schmidt, 2568; *Isoides* 5 spp. n.

Schouteden, 2586; Africa trop. & Natal *Reduviidae* 24 spp. n.

Aphidae & Coccidae.

Marchal, 1807; l'Afrique occidentale 4 spp. n.

Marchal, 1812; l'Afrique occidentale, *Howardia* gen. n., *Aspidiotus* sp. n.

Marchal, 1813; Afrique occidentale.

Tavares, 2899; Zambesi *Aphis* sp. n.

Anoplura.

Enderlein, 832; *Haematopinus* sp. n.

Neumann, 2036; *Haematopinus* sp. n.

Thysanoptera.

Bagnall, 97; *Urothrips* n. gen. et n. sp.

Buffa, 396; 4 spp. n.

Psocidae.

Enderlein, 817; Transvaal 2 spp. n., gen. n.

Embiidae.

Enderlein, 829; 3 spp. n.

Termitidae.

Silvestri, 2718; Spedizione al Ruwenzori.

Plecoptera.

Enderlein, 820; Cameroons *Ochthopetina* gen. n.

Enderlein, 826; Transvaal *Ochthopetina* sp. n.

Klapálek, 1554; *Neoperla* 4 spp. n.

Klapálek, 1561; 2 spp. n.

Ephemeridae.

Ulmer, 2981; *Caenis* sp. n.

Odonata.

Förster, 922; Cameroons 2 spp. n., gen. n.

Kirby, 1533; Ruwenzori *Libellulidae* gen. n.

Ris, 2417; W. Africa *Libellulidae* 2 spp. n., *Micromacromia* & gen. n.

Ris, 2418; Africa *Libellulidae*.

Sjöstedt, 2724; Kilimandjaro-Meru list, 2 gen. n., 10 spp. n.

Zavattari, 3230; Ruwenzori.

Orthoptera.

Bolivar, 272; Cameroons, *Mazarredia* sp. n.

Bolivar, 274; Erythrea *Parasphena* sp. n.

Borelli, 291; Erythraea *Anisolabis* 2 spp. n.

Borelli, 295; Dermaptera dell' Uganda e del Ruwenzori.

Burr, 409; Forficulidae 4 spp. n., *Hypurgus, Spongiphora*, gen. n.

Burr, 410; Congo *Karschiella* sp. n.

Burr, 413; Africa trop. 2 spp. n., *Labia* & *Labidura*.

Giglio-Tos, 1099; Uganda e Ruwenzori.

Griffini, 1181; Africa trop. *Phasgonuridae* 4 spp. n., *Tetraconcha, Homocoryphus, Hexacentrus* & *Anabropsis*.

Hancock, 1248; Africa trop. & mer. *Tetriginae* 7 spp. n.

Karny, 1488; Ost-afrikanische, *Serpusia* sp. n., *Chortoicetes* sp. n., *Oecanthidae* gen. n.

Kirby, 1534; Ruwenzori *Blattidae* 2 spp. n. & *Locustidae* gen. n.

Shelford, 2682; Africa trop. *Blattidae* 10 spp. n.

Shelford, 2683; 8 spp. n., *Gyna Phenacisma, Gynopettis* & gen. n.

Sjöstedt, 2723; Congo *Gratidia* sp. n., E. Africa *Tarachodes* sp. n.

Sjöstedt, 2725; Kilimandjaro-Meru-*Mantodea* list, 15 spp. n.

Sjöstedt, 2726; Kilimandjaro-Meru, *Phasmodea* list, 16 spp. n.

Sjöstedt, 2727; Kilimandjaro-Meru, *Gryllodea*, 7 genn. n. 24 spp. n.

Sjöstedt, 2728; Kilimandjaro-Meru, *Locustodea* list, 1 gen. n., 20 spp. n.

Sjöstedt, 2729; Kilimandjaro-Meru, *Acridiidae* list, 2 genn. n., 18 spp. n.

Werner, 3158; Congo *Mantidae* 2 spp. n., gen. n.

Madagascar and Mascarene Islands.

Coleoptera.

Alluaud, 34; *Colpodes* 21 spp. n.

Gestro, 1080; *Xiphispa* sp. n.

Horn, 1369; *Pogonostoma* 2 spp. n.

Moser, 1962; *Anochilia* sp. n. & *Pygora* sp. n.

Schwarz, 2646; *Elateridae* spp. n.

Sicard, 2697; Revision des Coccinellides, many spp. n.

Théry, 2912; *Buprestidae* 4 spp. n.

Weise, 3144; Hispinen und Coccinelliden, 23 spp. n.

Hymenoptera.

Forel, 933; Seychelles *Solenopsis* sp. n.

Forel, 939; La faune malgache des fourmis et ses rapports avec les faunes de l'Afrique, de l'Inde, de l'Australie etc.

Kohl, 1591; Fossoria 7 spp. n.

Krieger, 1625; *Echthromorpha* sp. n.

Meunier, 1893; Copal, *Litus* sp. n.

Meunier, 1895; *Mymarinae* sp. n. in copal.

Zavattari, 3227; Reunion *Mutilla* sp. n.

Lepidoptera.

Aurivillius, 69; 3 spp. n., *Closterothrix, Pachymeta, Diplura*.

Aurivillius, 72; Madagascar & Comoro islds., 6 spp. n., *Cupido, Aganais, Eilema, Lenyra* & *Calesia*.

Bastelberger, 162; *Derambila* sp. n.

Hampson, 1244; Rodriguez *Cirphis* sp. n.

Hampson, 1247; *Noctuidae, Thalatha* sp. n.

Oberthür, 2080; *Polyptichus* sp. n.

Strand, 2825; *Deilemera*, sp. n.

Strand, 2828; *Castniidae* gen. n.

Trichoptera.

Ulmer, 2977; *Dipseudopsis* sp. n.

Ulmer, 2984; Madagaskar und den Comoren, *Anisocentropus* sp. n.

Neuroptera.

Navás, 2011; *Mantispa* sp. n.

Weele, 3135; 4 spp. n., *Acanthiclisis, Formicaleo* & *Leucochrysa*.

Diptera.

Surcouf, 2864; Tabanides nouveaux.

Hemiptera.

Bervoets, 215; Copal récent *Aradus* sp. n.

Distant, 700; *Fulgoridae* gen. n. near *Nilalokita*.

Distant, 710; Seychelles and neighbouring groups 16 spp. n.

Horváth, 1374; *Sirthenea* sp. n.

Reuter, 2385; *Gorpis* sp. n.

Newstead, 2047; 2 spp. n., *Lecanium* & *Aleurodes*.

Reuter & Poppius, 2400; *Allocorhynchus* sp. n.

Schmidt, 2538; *Tylana* sp. n.

Schouteden, 2586; *Margasus* 2 spp. n.

Šulc, 2853; *Psylla* sp. n.

Termitidae.

Holmgren, 1351; 2 spp. n.

Ephemeridae.

Ulmer, 2984; Comoro islds. 2 spp. n., *Centroptilum* and *Hagenulus*.

Odonata.

Ris, 2417; Madagascar and Nossi Bé, *Callophlebia* 2 spp. n.

Orthoptera.

Griffini, 1182; *Gryllacris* sp. n.

Griffini, 1185; Mauritius *Gryllacris* sp. n.

Griffini, 1191; *Gryllacris* 2 spp. n.

Asia, Tropical & Eastern,

Including Japan, Baluchistan, Afghanistan.

For West & Centr. Asia *vide* Palaearctic (b); for North Asia *vide* Palaearctic (c).

Insecta, collectively.

Green, 1171; fauna of Sigiriya Rock.

Maxwell-Lefroy, & Howlett, 1856; Indian insect life.

Willey, 3186; Notes on a trip from Ambalantota to Hambagamuwa.

Coleoptera.

Annandale & Horn, 49; India *Cicindelidae* list.

Arrow, 57; Ceylon, China, Burma and India, 4 spp. n., *Sisyphus*, *Drepanocerus* and *Rhyparus*.

Arrow, 58; India *Necrodes* sp. n.

Arrow, 59; India and Malay penins. 4 spp. n., *Phaeochroops* and *Phaeochrous*.

Bernhauer, 213; Japan *Anthobium* sp. n.

Boucomont, 303; Yunnan *Eroplotrupes* sp. n.

Champion, 488; China *Dryotribus mimeticus*.

Csiki, 624; Tonkin *Scaphidium* sp. n.

Ericson, 843; Japan *Ptenidium* sp. n.

Felsche, 839; India *Gymnopleurus*.

Fowler, 955; India and Ceylon *Languridae* 12 spp. n., genn. n.

Hagedorn, 1229; India and Burma *Diamerus* 2 spp. n.

Hirano, 1328; Prefecture Chiba, (Japanese).

Horn, 1360; Assam *Collyris* sp. n.

Janson, 1424; Burma and Assam 3 spp. n., *Dicerus* and *Taeniodera*.

Jordan, 1467; S. India *Anthribidae* 4 spp. n., *Litocerus*, *Hypseus*, *Disphaerona* and *Dinectarius*.

Kerremans, 1502; Tonkin, India and Siam 3 spp. n. *Chrysodema* and *Phrixia*.

Kieseritzky, 1529; Saghalien *Thanatophilus* sp. n.

Lameere, 1678; Ceylon and Nicobar islds. *Megopis* 2 spp. n.

Lewis, 1726; Nankin *Carcinopa* sp. n.

Maindron, 1790; Malabar and Yunnan *Pristomachaerus* 2 spp. n.

Moser, 1963; India, Tonkin, China, Formosa, *Holotrichia* and *Brahmina* 9 spp. n.

Olivier, 2087; Tonkin and Siam 3 spp. n., *Vesta*, *Lucernuta* and *Pteroptyx*.

Olivier, 2088; China *Lampyridae* 3 spp. n.

Pic, 2182; Bengale *Eurygenius* sp. n.

Pic, 2200; India 4 spp. n., *Telephorus, Pyrochroa, Formicomus.* and *Hylophilus.*

Pic, 2201; *Anthicus* de Himalaya 2 spp. n.

Pic, 2206; India *Idgia* sp. n.

Raffray, 2306; Japan, Ceylon, Cochin China, India, *Pselaphidae* 14 spp. n.

Reitter, 2362; China *Carabus* sp. n.

Ritsema, 2422; Medan *Pachyteria* sp. n.

Schmidt, 2559; *Aphodius* 2 spp. n.

Schmidt, 2560; Yunnan etc. Japan *Aphodiidae* 5 spp. n.

Silvestri, 2716; China and Japan *Chilocorus* sp. n.

Stebbing, 2797; India *Scolytidae* 15 spp. n.

Stebbing, 2798; Himalaya *Chramesus* sp. n.

Szombathy, 2894; Assam and Shanghai *Campsosternus* 2 spp. n.

Wagner, 3069; Formosa *Apion* 4 spp. n.

Strepsiptera.

Pierce, 2224; Japan, Siam, Annam, spp. n.

Hymenoptera.

Annandale, 48; Calcutta *Alaptus* sp. n.

Buysson, 431; Japan, Tonkin, China, Bhutan, *Chrysididae* 6 spp. n.

Cameron, 439a; India 15 spp. n., *Apidae* and *Odynerus.*

Cameron, 440; India, *Ichneumonidae* 7 genn. n., spp. n.

Cameron, 442; India *Apidae* 9 spp. n.

Cameron, 447; Simla *Evania* sp. n.

Cameron , 458; Himalaya *Salius* sp. n.

Cameron, 459a; *Apidae* and *Eumenidae* spp. n.

Cameron, 460; Ceylon undescribed *Ichneumonidae* and *Braconidae.*

Cockerell, 535; Baltistan *Bombus* sp. n.

Cockerell, 555; Assam *Habropoda* sp. n.

Cockerell, 557; Siam *Mesotrichia* sp. n.

Enderlein, 816; Formosa *Evaniidae* 5 spp. n.

Forel, 938: Ceylon *Camponotus* sp. n.

Kokujev, 1594; China occ., Mongolia, Tibet, *Ichneumonidae* spp. nn.

Mocsáry, 1926; Japan, Tonkin and Malacca, *Tenthredinidae* 13 spp. n.

Nurse, 2074; India 14 spp. n., *Astata, Tachytes* and *Tachysphex.*

Silvestri, 2716; Japan *Archenomus* sp. n.

Turner, 2965; India 2 spp. n., *Myzine* and *Plesia.*

Wheeler, 3168; Formosa *Polyrhacis* sp. n. and *Pheidole* sp. n.

Wickwar, 3184; rare Aculeata.

Zavattari, 3226; Kashmir *Eumenes* sp. n.

Cockerell, 534; China and Japan *Halictus* of.

Lepidoptera.

Bastelberger, 159; Formosa *Geometridae* 3 spp. n.

Bastelberger, 160; Formosa *Geometridae* 36 spp. n.

Bell, 188; India *Rhopalocera* of the plains of India and Hill Stations of the Bombay Presideney.

Chapman, 496; India *Zizera* sp. n.

Druce, 744; Formosa *Phengaris* sp. n.

Ehrmann, 799; Burma and Japan *Papilio* 2 spp. n.

Fletcher, 917; Ceylon *Pterophoridae* 3 spp. n.

Floersheim, Ent. Rec. **21** pp. 160–164; Ceylon in December, notes.

Fruhstorfer, 1008; Formosa *Chliaria* sp. n.

Fruhstorfer, 1011; Siam *Celaenorrhinus* sp. n.

Fruhstorfer, 1026; Formosa *Satarupa* sp. n.

Fruhstorfer, 1032; Formosa *Curetis* sp. n.

(**Fruhstorfer, 1034**; indomalayischen Gebiet, *Zendidia, Clerome.*)

Hampson, 1244; Ceylon *Celama* 2 spp. n., Formosa *Hema* sp. n., *Chionaema* sp. n., *Diacrisia* sp. n., *Agrotis* sp. n., Singapore *Pasteosia* sp. n., Madras *Asura* sp. n., China *Diacrisia* sp. n., *Mythimna* sp. n., Kashmir 2 spp. n., Malay penins. *Elusa* sp. n.

Hampson, 1247; Tibet, *Noctuidae Acronycta* and *Dasychaeta*, 2 spp. n.

Hampson, 1247; India, China, Japan Formosa *Noctuidae Acronyctinae* 15 spp. n.

Harcourt-Bath, 1252; Himalaya *Papilionidae* perpendicular distribution.

Joannis, 1443; China *Eublemma* sp. n.

Kon, 1603; ostasiatischen.

Manders, 1796; Ceylon *Abaratha siamica*.

Manson, 1799; India *Sphingidae* new localities.

Martin, 1834; Singapore *Pieris melete*.

Matsumura, 1850; Formosa *Rhopalocera*.

Matsumura, 1851; Japans Pieriden, 4 spp. n.

Matsumura, 1852; Japans Danaiden und Satyriden 4 spp. n. from Formosa.

Matsumura, 1853; Formosa *Sasakia* sp. n.

Meyrick, 1901; India *Tineidae* many spp. n.

Meyrick, 1902; *Eucosmidae* many spp. n.

Miyake, 1916; Japan *Latirostrum* sp. n.

Miyake, 1917; Japan 3 spp. n., *Diacrisia* and *Creatonotus*.

Oberthür, 2078; Formosa 2 spp. n., *Pieris* and *Phengaris*.

Swinhoe, 2888; India *Celaenorhinus* sp. n.

Warren, 3106; Kashmir to Kagoshima 10 spp. n., *Pharambara*, *Epiplema* and *Geometridae*.

Witt, 3200; Nimar district *Rhopalocera*.

Neuroptera.

Navás, 2011; India and Japan *Mantispa* 3 spp. n.

Navás, 2012; India *Dilarini* gen. n.

Navás, 2016; Japan *Raphidia* sp. n.

Navás, 2021; Japan, *Panorpidae* 5 spp. nn.

Weele, 3136; Burma *Glyphobasis* sp. n.

Weele, 3137; 5 spp. n., Japan *Sialis*, China and India, *Protohermes Hermes* and gen. n. *Neochauliodes*, Korea vide Palaearctic.

Diptera.

Annandale, 47; India *Diplonema* sp. n.

Austen, 75; India and Ceylon *Muscidae* 6 spp. n., 2 genn. n.

Froggatt, 987; Ceylon *Ceratitis* sp. n.

Hendel, 1293; Formosa *Trigonometopus* sp. n., Hongkong *Sepedon* sp. n.

Hendel, 1295; Formosa and Ceylon *Chrysomyza* sp. n.

Kertész, 1507; Formosa *Lozoneura* sp. n.

Kertész, 1508; Formosa *Stratiomyidae* gen. n. and *Ewaza* sp. n.

Lichtwardt, 1727; India, Burma, Ceylon, Formosa, *Nemestrinidae* 5 spp. n.

Lichtwardt, 1728; Westlichen Himalaya, 3 spp. n. *Pterodontia*, *Laphria*, and *Cuphocera*.

Pratt, 2274; Federated Malay States *Tabanidae*.

Ricardo, 2407; India *Tabanus* 4 spp. n.

Townsend, 2933; *Tachina* sp. n.

Hemiptera.

Bergroth, 198; India, *Aschistocoris* sp. n., *Euthetus* sp. n., *Tapinus* sp. n.

Breddin, 336; Ceylon 30 spp. n.

Distant, 696; Bengal 2 spp. n., *Valleriola* and *Hilda*.

Distant, 698; India, Ceylon, Tenasserim, and Burma, *Lygaeidae* 40 spp. n., genn. n.

Distant, 699; India and Ceylon, 27 spp. n., *Lygaeidae*, *Pyrrhocoridae*, *Phymatidae*, *Aradidae*, *Hebridae*, *Hydrometridae*, *Reduviidae*, gen. n.

Distant, 700; Malay penins. and Andaman islds., *Fulgoridae* spp. n., *Lollius* and *Tempsa*, 2 genn. n.

Distant, 701; India gen. n. *Ricaniinae.*

Distant, 702; India and Ceylon *Capsidae* 44 spp. n., genn. n.

Distant, 703; India *Tingitidae* 18 spp. n.

Distant, 704; India and Ceylon 28 spp. n., *Metacanthus*, *Tingitidae* gen. n., *Aradus*, *Reduviidae* 22 spp. n. and genn. n., *Salda.*

Distant, 705; Nilgiri hills *Capsidae* 4 spp. n., 2 genn. n.

Distant, 706; China *Cicadidae* gen. n.

Distant, 707; India *Rihana* sp. n., Ceylon *Terpnosia* sp. n.

Distant, 709; Malacca *Amissus* sp. n.

Kirkaldy, 1539; China *Cicadidae* & *Cercopidae* 4 spp. n.

Kirkaldy, 1542; Malacca *Cylindrostethus* sp. n.

Kirkaldy, 1552; China *Pentatomidae* 2 spp. n.

Kuwana, 1650; Japan *Coccidae* 8 spp. n.

Montandon, 1934; India *Geocoris* sp. n.

Reuter and Poppius, 2400; China & Afghanistan *Nabidae* 2 spp. n.

Schmidt, 2561; India *Mioscarta* sp. n.

Schmidt, 2564; Cambodia *Cercopidae* gen. n.

Schmidt, 2538; Formosa *Hemisphaerius* sp. n.

Coccidae.

Green, 1164; India *Kermes* sp. n.

Green, 1166; India *Margarodes.*

Green, 1173; Ceylon many spp. n.

Termitidae.

Oshima, 2106; Japan Termites (Japanese).

Shiraki, 2694; Formosa & Japan 5 spp. n.

Perlidae.

Enderlein, 820; Tonkin & Sikkim 3 spp. n., *Perla* & *Acroneuria.*

Enderlein, 826; Tonkin & Malacca, 2 spp. n., gen. n.

Klapálek, 1554; India & Malacca 3 spp. n.

Klapálek, 1555; Tonkin *Acroneuria* sp. n.

Klapálek, 1558; Japan *Perlinae.*

Odonata.

Förster, 922; Japan *Somatochlora* sp. n.

Martin, 1835; India, Japan, Tonkin, 7 spp. n., *Austroaeschna*, *Calliaeschna*, *Jagoria*, *Periaeschna* gen. n., *Gynacantha.*

Orthoptera.

Bolivar, 272; India, Assam, Burma, *Acridiidae* 6 spp. n., *Eugavialidium*, *Mazarredia*, *Coptotettix*, & *Xistrella* gen. n.

Borelli, 293; Kashmir *Forficulidae* 2 spp. n.

(**Carl, 466**; Neue Locustodeen von Ceylon und Borneo.)

Hancock, 1248; India, Ceylon & Malay penins., *Tetriginae* 8 spp. n.

Shelford, 2682; Ceylon & Annam *Anaplectoidea* 2 spp. n.

Shelford, 2686; India *Epilampra* sp. n.

Collembola.

Börner, 257; Japans Collembolen fauna, 30 spp. n.

Asiatic Archipelago.

Java to New Guinea, incl. Philippines.

Insecta, collectively.

Rouffaer and others, 2499; Neu-Guinea, *Hymenoptera* & *Neuropteroidea* Listes.

Coleoptera.

Arrow, 58; Java *Episcapha* sp. n.

Arrow, 59; *Hybosorinae* 6 spp. n.

Csiki, 624; Sumatra *Trochoideus* sp. n., New Guinea *Scaphidiidae* 2 genn. n.

Everts, 848; Sumatra *Dascillidae* 3 spp. n., genn. n.

Felsche, 869; New Guinea *Liparochrus* sp. n.

Fowler, 955; Borneo *Languriidae* sp. n.

Hagedorn, 1229; Sumatra *Scolytidae* 3 spp. n.

Horn, 1360; Borneo *Cicindela* 2 spp. n.

Horn, 1363; Philippines *Prothyma* 2 spp. n.

Kerremans, 1502; *Buprestidae* 8 spp. n.

Lameere, 1678; Borneo & Sumatra *Megopis* 3 spp. n.

Lewis, 1726; Tenimber *Platylister* sp. n., Borneo *Platysoma* sp. n.

Möllenkamp, 1928; New Guinea *Lucanidae* 2 spp. n.

Möllenkamp, 1929; Sumatra *Aegus* sp. n.

Moser, 1962; 6 spp. n. *Thaumastopoeus*, *Chalcophasis* and *Protactia*.

Moser, 1963; Java *Holotrichia* 2 spp. n. & Dammer isld. *Brahmina* sp. n.

Pic, 2206; Sumatra *Idgia* sp. n.

Ritsema, 2421; *Helota* synopsis sp. n.

Ritsema, 2423; Borneo *Pachyteria* sp. n.

Ritsema, 2424; Java *Adelotopus* sp. n.

Schmidt, 2559; *Aphodiini* 5 spp. n.

Spaeth, 2776; *Cassididae* collected by the Dutch New Guinea Expedition 1907.

Szombathy, 2894; New Guinea *Elateridae* 2 spp. n., *Lacon* & *Monocrepidius*.

Weise, 3144; New Guinea *Xiphispa* sp. n.

Strepsiptera.

Pierce, 2224; Philippines sp. n.

Hymenoptera.

André, 41; Java *Mutilla* 2 spp. n.

Cameron, 441; Borneo *Peramblynotus* sp. n.

Cameron, 443; Borneo 3 spp. n., *Philomedes*, *Schizaspidia* & *Metapelma*.

Cameron, 444; Borneo *Braconidae* gen. n.

Cameron, 445; Borneo *Proctotrypidae* gen. n.

Cameron, 446; Borneo *Ichneumonidae* 5 spp. n.

Cameron, 447; Borneo *Evania* 2 spp. n.

Cameron, 448; Borneo *Nomada* sp. n.

Cameron, 449; Borneo *Mutilla* 2 spp. n.

Cameron, 450; Borneo *Discolia* sp. n. & *Tephia* sp. n.

Cameron, 451; Borneo *Pompilus* & *Salius*, 4 spp. n.

Cameron, 452; Borneo *Zeuthus* sp. n.

Cameron, 453; Borneo *Chalcididae* 2 genn. n.

Cameron, 454; Borneo *Eucharinae* 7 spp. n.

Cameron, 457; Borneo 2 spp. n., *Pison* & *Nologonia*.

Cameron, 459; Borneo *Braconidae* 12 spp. n.

Cockerell, 534; Xmas island *Lithurgus* sp. n.

Cockerell, 535; Amboina *Crocisa* sp. n.

Enderlein, 821; Sumatra 2 spp. n., *Pseudagenia* & *Paragenia*.

Forel, 933; Labuan *Camponotus* sp. n.

Forel und **Jacobson**, 944; Java und Krakatau Ameisen 3 spp. n.

Friese, 977; Neu-Guinea Bienenfauna many spp. n.

Krieger; 1625; *Echthromorpha* 4 spp. n.

Lange, 1689; New Guinea *Tremex* sp. n.

Mocsáry, 1926; *Tenthredinidae* 6 spp. n.

Wheeler, 3168; Philippines 2 spp. n., *Iridomyrmex* & *Polyrhacis*.

Lepidoptera.

Bastelberger, 165; Moluccas *Rambara* sp. n.

Bethune-Baker, 219; New Guinea 3 spp. n., *Morphotenaris*, *Candalides* and *Hypochrysops*.

Chapman, 496; Java *Zizera* sp. n.

Druce, 748; New Guinea 3 spp. n., *Diacrisia*, *Nadata* and *Pterocyclophora*.

Druce, 749; Borneo *Eublemma* sp. n.

Fruhstorfer, 1009; New Guinea *Danais* sp. n.

Fruhstorfer, 1011; Celebes *Celaenorrhinus* sp. n.

Fruhstorfer, 1014; Borneo and Nias 2 spp. n., *Plastingia* and *Tagiades*.

(**Fruhstorfer, 1035**; Neue Amathusiinae.)

Hampson, 1244; 4 spp. n., *Hyalaethea*, *Celama*, *Elusa*.

Kenrick, 1499; New Guinea *Delias* 10 spp. n.

Lathy, 1692. New Guinea *Morphotenaris* sp. n.

Martin, 1832. Ceram *Ideopsis* sp. n.

Martin, 1833. Java *Terpander* sp. n.

Piepers & Snellen, 2221; Java *Pieridae*.

Swinhoe, 2888; 10 spp. n., *Hasora*, *Synegia*, *Hypochrosis*, *Loxotephria*, *Ectropis*, *Callidula*, *Cleis*, *Scopelodes*, *Hyblaea*, *Ophiusa*.

Warren, 3106; New Guinea *Bordera* sp. n.

Weymer, 3165; Sumatra *Tripura* sp. n., Celebes *Antheraea* sp. n.

Trichoptera.

Ulmer, 2977; 3 spp. n., Borneo *Dipseudopsis*, Java *Amphipsyche* and *Diplectrona*.

Ulmer, 2978; Java 6 spp. n.

Neuroptera.

Navás, 2011; Sumatra, Philippines, and New Guinea, *Mantispa* 3 spp. n.

Weele, 3137; Sumatra *Hermes* sp. n.

Weele, 3138; Malay Archipelago, 12 spp. n., Planipennia and *Panorpatae*.

Weele, 3139; Neuropteroidea der holländischen Neu-Guinea-Expedition.

Diptera.

Banks, 128; Philippines *Culicidae* 4 spp. n.

Brues, 384; Philippines *Aphiochaeta* 2 spp. n.

Docters van Leeuwen & Meyere, 723; *Agromyza* sp. n.

Knab, 1574; Philippines 2 spp. n., *Mansonia* and *Aedeomyia*.

Lichtwardt, 1727; New Guinea *Adriadops* sp. n.

Ludlow, 1763; Philippines 2 spp. n., *Anopheles* and *Pseudouranotaenia*.

Ludlow, 1764; Philippines *Oculiomyia* sp. n.

Ludlow, 1765; Philippines, novelties and 2 spp. n., *Taeniorhynchus* and *Uranotaenia*.

Meyere, 1898; 2 genn. n., *Culicidae* and *Milichiinae*.

Meyere, 1899; 6 spp. n. *Ceratopogon*, *Culicoides* & *Phlebotomus*.

Stein, 2800; Javanische Anthomyiden, 28 spp. n.

Hemiptera.

Banks, 129; Philippines 12 spp. n.

Breddin, 336; Borneo *Dysdercus*, sp. n.

(**Breddin, 339**; Übersicht *Micronecta* Arten.)

Distant, 700; Sumatra & Gilolo *Tylana* 2 spp. n.

Distant, 701; Aru *Varcia* sp. n., Ceram *Ricania* sp. n., Borneo *Pochazia* 2 spp. n.

Distant, 707; Philippines *Rihana* sp. n.

Distant, 709; 14 spp. n., *Poecilocoris*, *Alcimocoris*, *Rhynchocoris*, *Embolosterna*, gen. n. near *Oxylobus*, *Petillia*, *Carcinochelis*, *Tribelocephala*, *Cryptotympana*, *Prasia*, *Lembeja* & *Philagra*.

Horváth, 1375; N. Guinea *Clerada* 2 spp. n.

Kirkaldy, 1542; Philippines *Ptilomera* sp. n.

Montandon, 1933; Sumatra *Cercotmetus* sp. n.

Reuter, 2385; Nias isld. & New Guinea, *Gorpis* 2 spp. n.

Reuter, 2399; Java *Capsidae* 5 spp. n.

Reuter & Poppius, 2400; *Nabidae* 6 spp. n.

Schmidt, 2531; Java, Sumatra & New Guinea, *Cercopidae* spp. n., *Considia*, *Thoodzata*, *Eoscarta* & *Notoscarta*.

Schmidt, 2532; Borneo & Sumatra 2 spp. n., *Sudra* & *Parasudra*.

Schmidt, 2533; Sumatra & Obi *Cercopidae* 2 genn. n.

Schmidt, 2564; *Cercopidae* 2 genn. n., 7 spp. n.

Schmidt, 2535; Sumatra *Dalader* sp. n.

Schmidt, 2538; *Issides* 10 spp. n.

Thysanoptera.

Bagnall, 105; 7 spp. n. gen. n.

Plecoptera.

Enderlein, 820; Java & Sumatra gen. n. 5 spp. n.

Enderlein, 823; Java gen. n.

Enderlein, 826; Borneo *Ochthopetina* sp. n.

Klapálek, 1554; Java, Borneo, Philippines, *Neoperla* 5 spp. n.

Odonata.

Martin, 1835; 5 spp. n., *Amphiaeschna*, *Linaeschna* gen. n., *Platacantha* gen. n. and *Heliaeschna*.

Martin, 1836; 2 spp. n. *Onychogomphus* and *Argiolestes*.

Ris, 2417; *Libellulinae* 2 spp. n., Celebes *Lyriothemis*, Borneo gen. n.

Weele, 3140; Dutch New Guinea Exp., 1907, *Lestes* sp. n.

Orthoptera.

Bolivar, 272; *Acridiidae* 5 spp. n., *Eugavialidium*, *Criotettix*, *Systolederus*, *Mazarredia*, and *Kraengia* gen. n.

Burr, 409; Lombok *Eparchus* sp. n., Borneo *Opisthocosmia* sp. n.

Burr, 415; New Guinea Expedition, *Hamaxus* sp. n.

Griffini, 1179; *Gryllacris* 6 spp. n.

Griffini, 1183; Sumatra *Tympanophoridae* gen. n.

Griffini, 1185; Borneo *Gryllacris* sp. n.

Griffini, 1189; N. Guinea *Gryllacris* 2 spp. n.

Griffini, 1192; New Guinea *Gryllacris* 2 spp. n.

Griffini, 1195; New Guinea *Gryllacris* 3 spp. n.

Hancock, 1248; New Guinea islds. and Borneo *Tetrigiinae* 6 spp. n.

Jordan, 1469; Forficulid on bat.

Rehn, 2339; Sumatra 16 spp. n., genn. n.

Shelford, 2682; Sumatra *Areolaria* sp. n., Borneo *Pseudothyrsocera* sp. n.

Shelford, 2683; Borneo *Methana* 2 spp. n.

Zacher, 3217; *Locustidae* 5 spp. n. 2 genn. n.

Australia.

Insecta, collectively.

Cleland & Giles, 516a; N.W. Australia list.

Coleoptera.

Arrow, 59; 6 spp. n., *Phaenognatha* and *Liparochrus*.

Blackburn, 243; *Heteronyx* many spp. n., *Aneurystypus* sp. n.

Carter, 473; *Tenebrionidae* 19 spp. n.

Champion, 488; *Cossonidae* novelties.

Felsche, 869; Cape York *Coptodactyla* 2 spp. n.

Ferguson, 876; *Psalidura* 22 spp. n.

Goudie, 1144; Victoria *Carabidae* annotated list.

Lameere, 1679; *Dorx* and *Pithanotes* withdrawn.

Lea, 1696; *Curculionidae* many spp., n.

Lea, 1697; Australia and Tasmania, *Malacodermidae* revision, many spp. n.

Lea, 1698; *Cryptorhynchides* spp. n. and genn. n.

Lea, 1699; Austral. and Tasm. gen. n. *Trichopteryyidae*.

Lea, 1700; *Curculionidae* 13 spp. n., 2 genn. n.

Lea, 1700a; Curculionidae 9 spp. n., *Catastygnus*, *Eniopea*, *Pachyura*, *Haplonyx*, *Sigastus*, *Lybachi*, *Exithrus* and *Pseudapries*.

Lea, 1701; Queensland *Belus* sp. n.

Pic, 2210; *Paussoptinus* sp. n.

Raffray, 2306; *Pselaphidae* 3 spp. n.

Schmidt, 2530; *Dialytes* sp. n.

Sloane, 2743; *Cicindelidae* 3 spp. n.

Hymenoptera.

Bingham, 238; Queensland *Mutillidae* 2 spp. n.

Cockerell, 534; *Apidae* 2 spp. n., *Hyleoides*, *Tetralonia*.

Cockerell, 535; *Prosopis* 5 spp. n.

Friese, 977; Queensland, *Anthidium*, *Megachile* sp. n.

Turner, 2964; *Thynnidae* 8 spp. n.

Turner, 2965; Townsville *Anthobosca* sp. n.

Turner, 2966; *Scolia* and *Campsomeris* 4 spp. n.

Wheeler, 3169; Victoria, *Formicidae*.

Lepidoptera.

Hampson, 1244; spp. n., *Nola*, *Chionaema*.

Hampson, 1247; *Noctuidae Acronyctinae* 7 spp. n.

Lyell, 1774; Victorian alps, list.

Pfitzner, 2175; W. Australia *Charagia* sp. n.

Turner, 2961; *Noctuidae* 25 spp. n.

Waterhouse, 3122; *Miletus* 3 spp. n.

Neuroptera.

Banks, 136; Queensland *Hemerobiidae* 10 spp. n., genn. n.

Diptera.

Coquillett, 598; *Dacus* sp. n.

Hermann, 1300; *Apiocera* sp. n.

Lichtwardt, 1727; Queensland *Nemestrinidae* gen. n.

Aphaniptera.

Rothschild, 2476; *Echidnophaga* sp. n.

Rothschild, 2477; *Parapsyllus* sp. n.

Hemiptera.

Bergroth, 198; 3 spp. n., *Spudaeus* and *Capycella*, Tasmania *Acantholybas* sp. n.

Bergroth, 201; Australia and Tasmania 4 genn. n., *Pentatomidae*, *Myodochidae* and *Reduviidae*.

Bergroth, 202; *Choerocydnus* sp. n.

Distant, 701; *Ricania* 3 spp. n.

Horváth, 1374; *Sirthenea* sp. n.

Horváth, 1375; *Clerada* 2 spp. n.

Jacobi, 1409; 11 spp. n., gen. n.

Reuter, 2398; Sidney *Campsoscytus* sp. n.

Termitidae.

Silvestri, 2717; genn. n., spp. n.

Plecoptera.

Enderlein, 826; gen. n.

Odonata.

Martin, 1835; *Aeschninae* 4 spp. n., *Austroaeschna*, *Calliaeschna*.

Tillyard, 2920; *Corduliinae*, 5 spp. n., genn. n.

Tillyard, 2921; *Gomphinae* 5 spp. n.

Orthoptera.

Griffini, 1185; 2 spp. n. *Paragryllacris* and *Camptonotus*.

Hancock, 1248; *Tetrix* sp. n.

Shelford, 2683; Revision of *Polyzosteria* group, 13 spp. n.

Shelford, 2687; *Blattidae* 11 spp. n.

North America.

Insecta, collectively.

†**Cockerell, 528**; Tertiary *Neuroptera* and *Trichoptera* 4 spp. n.

†**Cockerell, 529**; Tertiary *Orthoptera* and *Diptera* 4 spp. n.

†**Cockerell, 532**; Colorado, *Diptera* and *Hymenoptera* 6 spp. n.

†**Cockerell, 564**; Colorado spp. n.

Davis, 662; New Jersey.

Harrington and others, Ottawa Nat. pp. 30 & 31, 50 & 76; Ottawa short list.

Johnson, 1460; Labrador.

Murtfeldt, 1989; Missouri 1908.

†**Rohwer, 2431**; Three new fossils from Florissant.

†**Sellards, 2655**; Permian insects Megasecoptera, Oryctoblattinidae and Protorthoptera, 43 spp. n.

Sherman, 2690; North Carolina.

Swinton, 2889; Canada, British insects in.

Tucker, 2951; Apterous and orthopterous, Texas.

Webster, 3132; Iowa.

Worsham, 3205; Georgia.

Coleoptera.

Aldrich, 26; *Leptinotarsa decemlineata.*

Bernhauer, 208; *Alcocharini* 24 spp. n. *Atheta.*

Blaisdell, 244; A monographic revision of the tribe *Elcodiini* inhabiting the United States, Lower California, and adjacent islands; numerous spp. n.

Bowditch, 323; United States *Pachybrachys* 34 spp. n.

Casey, 474; United States 29 spp. n., *Omus, Cicindela, Omophron, Blethisa, Pseudomorpha, Platycerus, Coenonycha, Phobetus, Dyscinetus, Ligyrus, Valgus,* and gen. n. near *Trigonopeltastes.*

Casey, 475; Studies in *Buprestidae,* many spp. n.

Chagnon, 481; Labrador list.

Chagnon, 482; Quebec *Buprestidae.*

†**Cockerell, 530**; Eocene Wyoming *Syntomostylus* sp. n.

Easton, 789; Fall river Massachusetts list.

Fall, 854; United States South-west and Lower California 14 spp. n., *Canthydrus, Scymnus, Bostrichus, Ataenius, Eburia, Metaleptus, Saxinis, Statira, Macrobasis, Cantharis, Anthonomus, Cryptorhynchus, Madarellus* and *Cossonus.*

Fall, 855; *Ochodaeus* 2 spp. n.

Fall, 856; *Diplotaxis,* 50 spp. n.

Fall, 857; *Platycholeus* sp. n.

Fenyes, 874; California gen. n. *Alcocharinae.*

Fenyes, 875; *Alcocharinae* 9 spp. n.

Frost, 992; Framingham Mass.

Gates, 1064; Massachusetts *Rhynchites bicolor.*

Greene, 1176; *Zophobas morio* Florida.

Hopkins, 1358; *Dendroctonus* 6 spp. n.

Knab, 1578; Canada and U.S. *Calligrapha* 3 spp. n.

Knaus, 1583; Kansas additions 38 spp. and varr.

Leng, 1710; *Clerus* sp. n.

Manee, 1797; N. Carolina.

Morris, 1958; Ontario collecting at flowers.

Nunenmacher, 2068; 2 spp. n., *Coccinella* and *Brachyacantha.*

Pierce, 2223; *Curculionidae* 12 spp. n.

Schaeffer, 2537; Chiefly Arizona, 24 spp. n.

Schaeffer, 2538; *Cerambycidae* 4 spp. n.

Schaeffer, 2539; Florida 3 novelties.

Scott, 2647; *Disonycha* Ohio.

Sherman, 2691; Labrador.

Webster, 3130; *Phytonomus.*

Wellman, 3151; *Calospasta* sp. n.

†**Wickham, 3181**; Florissant, 7 spp. n.

Strepsiptera.

Pierce, 2224; many spp. n., genn. n.

Hymenoptera.

Beutenmüller, 223; 3 spp. n., *Rhodites* and *Andricus.*

Beutenmüller, 226; *Philoniz* sp. n.

Bradley, 327; California *Evaniidae* gen. n. and *Foenus* sp. n.

Brues, 383; North America parasitic Hymenoptera, 9 spp. n.

Buysson, 431; California *Holochrysis* sp. n.

Cockerell, 533; Texas and Nebraska *Apidae* 6 spp. n.

Cockerell, 536; Colorado *Nomada* sp. n.

Cockerell, 538; United States *Apidae* 3 spp. n., *Melissodes* and *Osmia.*

Cockerell, 540; New Mexico *Perdita* sp. n.

Cockerell, 543; United States 3 spp. n., *Colletes*, *Megachile*, and a fossil †*Melitta*.

Cockerell, 544; *Coelioxys* 3 spp. n.

†Cockerell, 545; Colorado two bees.

Cockerell, 546; *Diadasia* sp. n.

Cockerell, 551; Colorado and New Mexico, *Nomada* and *Osmia*, 5 spp. n.

Cockerell, 553; Texas *Tetralonia* and *Melissodes*, 3 spp. n.

Cockerell, 567; *Emphoropsis* sp. n.

Crawford, 614; Ottawa *Megorismus* sp. n.

Crawford, 615; Florida *Leucospis* sp. n., Texas gen. n. *Pteromalini*.

Crawford, 616; Maryland, new family of parasitic *Hymen*.

Crawford, 617; U.S. *Tetrastichus* 2 spp. n.

Crosby, 622; New York 2 spp. n., *Prodecatoma* and *Eurytoma*.

Ducke, 761; 2 spp. n., *Epeoloides* and *Dioxys*.

Gahan, 1050; Maryland *Coelopisthia* sp. n.

Girault, 1121; *Camptoptera* catalogue 1 sp. n.

Girault, 1123; *Mymaridae* gen. n.

Girault, 1124; *Aphelinus* sp. n.

Girault, 1125; The chalcidoid parasites of *Eulecanium* 3 spp. n.

Girault, 1126; *Oligosita* sp. n.

Girault & Sanders, 1128; *Nasonia* sp. n.

Hertzog, 1307; *Euceros* sp. n.

Kieffer, 1515; *Proctotrupidae* 52 spp. n.

Kieffer, 1520; *Cynipidae* 6 spp. n.

Lovell, 1747; *Osmia* and *Sphecodes*, 3 spp. n.

Lovell, 1748; The bees of Virginia—*Prosopis*, *Sphecodes*, 3 spp. n.

MacGillivray, 1783; Synopsis of *Scolioneurinae*, 4 spp. n.

MacGillivray, 1784; *Caliroa* 10 spp. n. and gen. n. near *Phyllotoma*.

Macgillivray, 1785; New Jersey *Poecilostoma* sp. n. and *Schizocerus* sp. n.

Rohwer, 2432; U.S. *Tenthredinidae* 17 spp. n., *Dolerus*, *Schizocerus*, *Hylotoma*, *Macrophya*, *Eriocampa*, *Pachynematus*, *Amauronematus*, *Pristiphora* and *Euura*.

Rohwer, 2433; United States 5 spp. n., *Pteronus*, *Blennocampa*, *Neocharactus*, *Monophadnus* and *Labidia*.

Rohwer, 2434; United States *Tenthredo* 7 spp. n.

Rohwer, 2435; Western U.S., 6 spp. n. *Erythraspides*, *Tenthredo* and *Allantus*.

Rohwer, 2436; Western *Macrophya*, 8 spp. n.

Rohwer, 2437; California 4 spp. n, *Periclista*, *Aphanius* and gen. n. *Blennocampinae*.

Rohwer, 2438; *Crabro* 7 spp. n.

Rohwer, 2439; *Tachytes* 6 spp. n.

Rohwer, 2440; Wasps, 3 spp. n.

Rohwer, 2441; *Psiloglossa* sp. n.

Rohwer, 2442; *Fossoria* 4 spp. n.

Rohwer, 2443; *Trypoxylon* 5 spp. n.

Rohwer, 2444; *Cryptocampus* 4 spp. n.

Rohwer, 2445; *Fossoria* 40 spp. n., *Proctotrypes* and *Lysiphlebus* 2 spp. n.

Rohwer, 2447; 6 spp. n. *Hedychridium* and *Chrysis*.

†Rohwer, 2448; *Ceropalidae* 2 spp. n.

Swenk, 2876; *Anthophora* 3 spp. n.

Viereck, 3026; *Andrena* sp. n.

Viereck, 3027; 5 spp. n. *Helorimorpha*, *Pimpla*, *Cryptus* and *Sphecodes*.

Viereck, 3028; United States 11 spp. n., *Braconidae*, *Fossoria* and *Apidae*, genn. n.

Viereck, 3029; Texas *Andrena* 2 spp. n.

Wheeler, 3170; *Formicidae* 10 spp. n.

Wheeler, 3171; *Myrmecocystus* sp. n.

Lepidoptera.

Bales, 106; Pickaway county list.

Bastelberger, 158; Texas *Tephrinopsis* sp.

Beutenmüller, 222; *Sesia* 3 spp. n.

Biederman, 235; *Catocala* sp. n.

Bird, 240; New York *Papaipema* sp. n.

Brehme, 340; New Mexico *Anisota* sp. n.

Brehme, 341; New Jersey notes.

Brimley, 355; N. Carolina, list.

Busck, 417; United States *Tineidae* 13 spp. n., genn. n.

Cook & Watson, 531; Texas *Incisalia* sp. n.

Coolidge, 592; Santa Clara, *Rhopalocera* supplement.

Dyar, 770; New York *Acrobasis* sp. n.

Dyar, 771; California and Florida spp. n., *Selidosema*, *Stenaspilates*, *Argyria*, *Hypopta* and gen. n. *Pyralidae*.

Forbes, 930; New England notes.

Gibson, 1093 & 1095; Ottawa *Psilocorsis* sp. n.

Grossbeck, 1200; Arizona and S. California *Geometridae* 7 spp n., *Hydriomena*, *Coenocalpe*, *Tornos*, *Selidosema*, *Cleora* and *Stenaspilates*.

Hampson, 1247; Canada *Acronycta* sp. n.

Minot, 1912; Massachusetts and Maine butterflies.

Muttkowski, 1998, 1999; Wisconsin *Lep.* of.

Muttkowski, 2000; *Tineoidea*.

Pearsall, 2143; Catskill mts. 2 spp. n. *Mesoleuca* and *Cleora*.

Pearsall, 2144; Arizona *Stammodes* sp. n.

Pearsall, 2145; *Geometridae* 13 spp. n.

Reiff, 2347; Boston *Zeuzera pyrina*.

Rothschild, 2482; *Halisidota* 2 spp. n.

Rothschild, 2487; Oregon *Hemihyalea* sp. n., Colorado *Halisidota* sp. n.

Sleight, 2735; New Jersey, *Catocala herodias*.

Smith, 2748; *Noctuidae* 20 spp. n.

Swett, 2878; Arizona and Colorado *Hydriomena* 5 spp. n.

Taylor & Gibson, Canad. Ent. 41 p. 423; Canada *Sphinx perelegans* novelty.

Tucker, 2953; Plano Texas incidental captures.

Williams, 3190; Mt. Shasta region.

Winn, 3197; Montreal *Rhopalocera* 2 novelties.

Trichoptera.

Banks, 132; 2 spp. n.

Vorhies, 3050; Wisconsin Trichoptera spp. n. etc.

Neuroptera.

†Cockerell, 541; Florissant *Palaeochrysa* 2 spp. n.

Navás, 2017; *Psectra* sp. n.

Diptera.

Aldrich, 25; Ottawa *Rhagoletis* sp. n.

Back, 94; America, north of Mexico, *Leptogastrinae* and *Dasypogoninae* 20 spp. n.

Banks, 131; *Systropus* sp. n.

†Cockerell, 527; Tertiary *Diptera* 6 spp. n.

Cockerell, 539; Colorado, *Rhopalomyia* sp. n.

†Cockerell, 554; Miocene Colorado *Bibio* sp. n.

†Cockerell, 562; Florissant Miocene *Glossina* sp. n.

†Cockerell, 533; gen. and spp. Florissant, Colorado, gen. n.

Coquillett, 596; Texas *Hermetia* sp. n.

Doane, 719; California *Tipula* 3 spp. n.

Dyar, 773; Dublin, New Hampshire, *Mansonia perturbans*.

Dyar & Knab, 778; Canada *Aedes* sp. n.

Dyar & Knab, 779; *Culex* sp. n.

Dyar & Knab, 781; Arkansas *Aedes* sp. n.

Dyar & Knab, 782; *Culicidae* sp. n.

Felt, 872; *Cecidomyiidae* 37 spp. n.

Hendel, 1294; Colorado *Oedopa* sp. n.

Hine, 1325; *Aedes* 23 spp. n.

Johannsen, 1448; *Mycetophilidae* monograph, 12 spp. n.

Johannsen, 1450; United States *Mycetophilidae* 6 spp. n.

Johnson, 1455; *Tipulidae* 15 spp. n.

Johnson, 1458; *Trypetidae*, distribution in U.S. *Euaresta* sp. n., New Jersey, p. 114.

Ludlow, 1763; *Anopheles perplexens* withdrawn.

Townsend, 2933; *Tachinidae* 6 spp. n., genn. n.

Williams, 3188; *Cecidomyia* sp. n.

Aphaniptera.

Fox, 956; San Francisco.

Fox, 957; *Ceratophyllus* sp. n.

Fox, 958; *Dolichopsyllus* sp. n.

Fox, 960; *Odontopsyllus* sp. n.

Mitzmain, 1915; California list.

Rothschild, 2475; California *Ceratophyllus* 2 spp. n.

Hemiptera.

Ball, 112; United States 11 spp. n., *Phlepsius*, *Eutettix* and *Scaphoideus*.

Ball, 113; California *Jassidae* 9 spp. n.

Ball, 114; *Jassidae* 10 spp. n.

Ball, 115; *Fulgoridae* 9 spp. n.

Banks, 135; U. S. *Emesidae* 7 spp. n.

Berger, 196; Florida *Aleyrodes* sp. n.

†**Cockerell, 554**; Colorado Miocene 3 spp. n. *Coreidae*, *Cydnidae* and *Fulgoridae*.

Hahn, 1232; Brood v *Tibicen septendecim* Porter county, Indiana, during 1905.

Heidemann, 1273; *Tingitidae* and *Leptoglossus*, 6 spp. n.

Heidemann, 1274; *Aradidae* 2 spp. n.

Johannsen, 1449; North American *Henicocephalidae*.

Patch, 2137; United States *Psylla* sp. n.

Reuter, 2386; Capsiden 49 spp. n.

Šulc, 2854; Colorado *Trioza* sp. n.

Torre Bueno, 2932; European in America.

Torre Bueno, Canad Ent. 41 p. 172; Van Duzee's Florida list.

Van Duzee, 2993; Florida 29 spp. n.

Van Duzee, 2995; 2 spp. n., *Brachymena* and *Perigenes*.

Van Duzee, 2997; *Heteroptera.*

Aphidae and Coccidae.

Cockerell & Robbins, 569; 2 spp. n., *Aspidiotus* and *Chionaspis*.

Davidson, 655; California *Aphid* 5 spp. n.

Davis, 657; *Aphid* 2 genn. and spp. n.

Gillette, 1105; *Aphis* sp. n.

Hayhurst, 1269; *Hyalopterus* sp. n.

Patch, 2133; *Pemphigus* sp. n.

Patch, 2139; *Microparsus* sp. n.

Patch, 2141; Maine *Chermes* 3 spp. n.

Severin & Severin, 2667; list of the Coccidae of Wisconsin.

Wilson, 3196; *Aphid.* new records.

Thysanoptera.

Hood, 1356; *Phloeothripidae* 2 spp. n.

Hood, 1357; sp. n.

Moulton, 1969; California *Euthrips* sp. n.

Shull, 2696; U.S. 5 spp. n.

Psocidae.

Enderlein, 815; United States, 2 spp. n.

Perlidae.

Klapálek, 1555; *Acroneuria* 10 spp.

Klapálek, 1559; United States *Acroneuria*, sp. n.

Odonata.

†**Cockerell, 554**; Miocene Colorado *Enallagma* sp. n.

Martin, 1835; Florida, *Tricanthagyna* sp. n.

Williamson, 3191; *Somatochlora* sp. n.

Williamson, 3192; *Macromia* 3 spp. n.

Wilson, 3193; Mississippi valley.

Orthoptera.

Cockerell, 553; *Diestrammena marmorata* in Colorado, p. 79.

Davis, 659; New Jersey *Orchelimum* sp. n.

Davis, 663; New Jersey *Cycloptilum* sp. n.

Hancock, 1248; *Tetrigiinae* 3 spp. n.

Hebard, 1270; December south Georgia.

Hebard, 1271; Keeweenaw bay Mich.

Hebard, 1272; *Scapteriscus vicinus* Georgia.

†**Matthew**, 1854; New Brunswick shales 2 spp. n., gen. n.

Morse, 1959; Massachusetts *Melanoplus* sp. n.

Rehn, 2337; *Diapheromera* Mexico.

Rehn & Hebard, 2341; New Mexico and western Texas, 6 spp. n.

Rehn & Hebard, 2342; California and Nevada *Acridiidae* and *Mantidae* 6 spp. n.

Walker, 3081; Northern Ontario *Orthopt.* with *Nomotettix* sp. n.

Thysanura and Collembola.

Jackson, 1408; *Lepidocyrtus* 2 spp. n.

Silvestri, 2715; New York *Eosentomon* sp. n.

Central America.

Coleoptera.

Arrow, 58; 3 spp. n. *Ethelema* and *Mycotretus*.

Bowditch, 323; Mexico and Brit. Honduras *Pachybrachys* 3 spp. n.

Casey, 474; Mexico *Cicindela* 3 spp. n.

Casey, 475; Mexico and Honduras *Buprestidae* 3 spp. n.

Champion, 490; *Curculionidae* many spp. n. and genn. n.

Fall, 854; Lower California 11 spp. n.

Grouvelle, 1204; Mexico *Corticaria* sp. n.

Kerremans, 1502; Mexico *Halecia* sp. n.

Kuhnt, 1647; Mexico *Brachysphoenus* sp. n.

Olivier, 2092; Panama *Megalophthalmus* sp. n.

Schmidt, 2530; Mexico *Aphodius* sp. n.

Schubert, 2619; Mexico *Staphylinidae* 20 spp. n.

Spaeth, 2773; 2 spp. n., gen. n. near *Chelymorpha*.

Spaeth, 2774; *Ctenochira* sp. n. and *Omaspides* sp. n.

Weise, 3146; Mexico *Hyperaspis* sp. n.

Strepsiptera.

Pierce, 2224; Guatemala sp. n.

Hymenoptera.

Forel, 936; Guatemala *Formicidae* 7 spp. n.

Kieffer, 1515; Nicaragua *Aclista* sp. n.

Kieffer, 1522; Belize *Macroteleia* sp. n.

Turner, 2965; Guatemala *Typhoctes* sp. n.

Vachal, 2989; Mexico *Diphaglossa* sp. n.

Viereck, 3028; Mexico *Apidae* gen. n.

Wheeler, 3173; Mexico *Formicidae* 4 spp. n.

Lepidoptera.

Dyar, 771; Mexico 15 spp. n.

Dyar, 774; Mexico *Euclea* sp. n.

Hampson, 1244; spp. n., *Syntomidae* gen. n.

Hampson, 1247; *Noctuidae Acronyctinae* 8 spp. n.

Rothschild, 2482; *Arctiinae* spp. n., *Hemihyalea*, *Amastus*, *Halisidota*.

Rothschild, 2485; Mexico and Costa Rica 6 spp. n., *Robinsonia* and *Automolis*.

Rothschild, 2487; *Arctiidae* 6 spp. n.

Walsingham, 3085; *Lavernidae* and *Gelechiidae*, 30 spp. n., genn. n.

Warren, 3104; Costa Rica *Scotura* sp. n.

Diptera.

Dyar & Knab, 778; Panama *Culex* sp. n.

Dyar & Knab, 779; Panama *Culex* sp. n.

Dyar & Knab, 781; Panama *Wyeomyia* 2 spp. n.

Dyar & Knab, 782; *Culicidae* spp. n.

Hendel, 1287; Mexico *Euxesta* sp. n.

Hendel, 1288; Mexico *Megalaemyia* gen. n. *Pterocallinae* sp. n.

Hendel, 1294; Mexico *Eumecosomyia* sp. n.

Aphaniptera.

Rothschild, 2477; Nicaragua *Ceratophyllus* sp. n.

Hemiptera.

Ball, 115; Mexico *Fulgoridae* gen. n.

Breddin, 325; Yucatan *Ochlerus* sp. n.

Cockerell & Robbins, 568; Nicaragua *Mesolecanium* sp. n.

Horváth, 1374; Costa Rica, *Sirthenea* sp. n.

Reuter, 2396; Mexico *Capsidae* 35 spp. n.

Schmidt, 2566; Costa Rica *Diestostemma* 2 spp. n.

Schmidt, 2568; Costa Rica *Thionia* sp. n.

Psocidae.

Enderlein, 815; Mexico 3 spp. n.

Plecoptera.

Enderlein, 813; Guatemala *Neoperla* sp. n.

Odonata.

Calvert, 434; *Neocordulia* sp. n.

Calvert, 435; Composition and ecological relations of fauna.

Osburn, 2104; The Odonata of the Biologia Centrali-Americana.

Orthoptera.

Bolivar, 272; Mexico and Costa Rica, *Acridiidae* 2 spp. n.

Bolivar, 274; Mexico *Sphenarium* sp. n.

Borelli, 292; *Forficulidae* Mexico gen. n., 2 spp. n.

Borelli, 294; Costa Rica *Forficulidae* spp. n.

Rehn, 2336; British Honduras *Orocharis* sp. n.

Thysanura.

Silvestri, 2715; Mexico *Japygidae* 3 spp. n.

Antilles.

Incl. Bermudas; excl. Trinidad.

Coleoptera.

Cameron, 439; Haiti *Myrmolamia* sp. n.

Champion, 488; Cuba *Gononotus lutosus.*

Champion, 490; St. Vincent *Curculionidae Barina* 6 spp. n., Cuba gen. n.

Felsche, 869; Haiti *Athyreus* sp. n.

Pic, 2199; Supplément à la liste des Coléoptères de la Guadeloupe.

Raffray, 2306; Martinique *Melba* sp. n.

Strepsiptera.

Pierce, 2224; Santo Domingo sp. n.

Hymenoptera.

Cockerell, 535; Jamaica *Augochlora* sp. n., *Tetrapedia* sp. n., *Melissa azurea.*

Kieffer, 1515; Cuba *Camptopsilus* sp. n.

Lepidoptera.

Hampson, 1244; Cuba *Seripha* sp. n.

Hampson, 1247; Jamaica, *Prodenia* sp. n. and *Galgula* sp. n., Bahamas Haiti and Cuba *Monodes* 3 spp. n.

Rothschild, 2482; Jamaica *Ischnocampa* sp. n.

Rothschild, 2487; Jamaica *Halisidota* sp. n.

Walsingham, 3085; Jamaica *Cosmopteryx* sp. n.

Warren, 3104; Dominica gen. n. near *Rachcospila*, Cuba *Sericoptera* sp. n.

Trichoptera.

Ulmer, 2977; Cuba *Chimarrha* sp. n.

Diptera.

Dyar & Knab, 780; Cuba *Culex* sp. n.

Dyar & Knab, 782; *Culicidae* spp. n.

Felt, 870; *Cecidomyiidae* 3 spp. n.

Newstead, 2044; Jamaica disease-producing *Diptera*, *Atylotus* sp. n.

Hemiptera.

Distant, 697; Dominica and Jamaica *Tomaspis* 2 spp. n

Distant, 701; *Epitemna marginata* withdrawn.

Lindinger, 1731; Jamaica *Gymnaspis* sp. n.

Van Duzee, 2997; Jamaica *Oncopeltus* sp. n.

Van Duzee, 2994; Bermudas short list, means of distribution.

Odonata.

Calvert, 436; Cuba and Porto Rico *Lestes* sp. n.

Orthoptera.

Griffini, 1180; Jamaica and St. Vincent *Gryllacris* 2 spp. n.

Rehn, 2338; *Paroxya* sp. n.

South America, including Trinidad.

Coleoptera.

Arrow, 58; 2 spp. n., *Lithophorus* and *Bothrideres*.

Arrow, 59; spp. n., *Coelodes*, *Chaetodus*, *Hybochaetodus*, *Cryptogenius* and *Aclopus*.

Aurivillius, 68; Peru and Bolivia *Cerambycidae* 18 spp. n.

Bernhauer, 211; *Staphylinidae* 29 spp. n.

Bourgeois, 312; Minas Geraes *Chauliognathus* sp. n.

Brèthes, 346; Argentina *Platypus* 2 spp. n.

Bruch, 378; Argentina *Buprestidae* 4 spp. n.

Bruch, 379; Argentina *Cerambycidae* 11 spp. n.

Bruch, 380; *Melolonthini* 9 spp. n., *Philochloenia* and *Demodema*.

Champion, 490; *Rhinanisus* sp. n.

Csiki, 624; Paraguay *Anoplocerus* sp. n.

Fassl, 858; Käferleben in West-Columbien.

Felsche, 869; *Coprini* 13 spp. n., *Dendropemon*, *Phanaeus*, *Athyreus* and *Bradycinctus*.

Gounelle, 1145; Goyaz Liste des Cérambycides, 106 spp. n., genn. n.

Gounelle, 1146; Brésilienne *Amphionycha* sp. n.

Hagedorn, 1229; *Scolytidae* 6 spp. n.

Horn, 1362; Argentina *Megacephala* sp. n.

Horn, 1368; Urugauy *Megacephala* sp. n.

Kerremans, 1502; Brazil and Guiana *Halecia* 3 spp. n.

Kuhnt, 1647; *Brachysphoenus* and *Dichomorpha*, 5 spp. n.

Lameere, 1680; *Pyrodes* 4 spp. n.

Lewis, 1726; Argentina 4 spp. n., *Saprinus* and *Euspilotus*.

Magalhães, 1787; Brazil *Dorcatoma* sp. n.

Ohaus, 2085; Argentinien, *Lamellicornia* 10 spp. n., genn. n.

Ohaus, 2086; Chile *Brachysternides* 3 spp. n., gen. n.

Olivier, 2087; 6 spp. n., *Lucidota*, *Photinus* and *Photuris*.

Olivier, 2089; *Lampyridae* 13 spp. n.

Olivier, 2091; *Lucidota* 4 spp. n.

Olivier, 2092; Cayenne *Calytocephalus* sp. n.

Olivier, 2094; Cordoba *Dodacles* sp. n.

Olivier, 2095; Tucuman *Photinus* sp. n.

Pape, 2127; Colombia *Mesoptilius* sp. n.

Pic, 2179; *Silis* 2 spp. n.

Pic, 2183; Bolivie *Hylophilus* 7 spp. n.

Pic, 2186; Bolivia 4 spp. n., *Anthicus* and *Tomoderus*.

Pic, 2209; 2 spp. n., *Dromanthus* and *Hadrobregmus*.

Raffray, 2306; *Pselaphidae* 18 spp. n.

Raffray, 2307; Argentina *Pselaphidae* 29 spp. n., genn. n.

Schmidt, 2559; 2 spp. n. *Aphodius* and *Ataenius*.

Schmidt, 2560; *Aphodiidae* 9 spp. n.

Spaeth, 2773; 5 spp. n., *Chelymorpha* and gen. n.

Spaeth, 2774; 22 spp. n.

Wasmann, 3115; Brazil n. gen. *Paederini.*

Hymenoptera.

André, 37; *Mutillidae* 4 spp. n., *Mutillidae* of Argentina catalogue.

André, 44; Mendoza gen. incertae sedis, cf. *Konowiella* in *Fossoria.*

Bréthes, 345; Buenos Aires *Sphex* 3 spp. n.

Brèthes, 347; *Pepsis* 79 spp. n.

Brèthes, 349; Mendoza and San Luis 4 spp. n. *Notocyphus* and *Pompilus.*

Brèthes, 350; 25 spp. n., *Ichneumonidae, Braconidae, Chalcididae, Odynerus, Fossoria, Epeolus.*

Brèthes, 352; *Heresiarchoides* sp. n., *Iphiaulax* 2 spp. n., *Sphex* sp. n.

Brèthes, 354; the Chilian *Pepsis.*

Buysson, 429 & 430; Mendoza, *Chrysididae* 3 spp. n.

Du Buysson, 431; 8 spp. n. *Megacanthopus, Polybia* and *Synagris.*

Cameron, 455; Parasitic, Argentina 35 spp. n.

Cockerell, 525; Patagonia *Colletes* sp. n.

Ducke, 760; Amazons *Vespidae* 2 spp. n.

Ducke, 761; Trop. S. America, *Apidae* 7 spp. n., *Monobia* sp. n., *Fossoria* spp. n., *Nitela, Anacrabro* and *Irenangelus, Ellampus* sp. n.

Ducke, 762; Ceara notes, *Apidae* 17 spp. n.

Enderlein, 816; *Evania* and *Semaeomya*, 3 spp. n.

Forel, 936; *Formicidae* 8 spp. n.

Holmberg, 1348; Argentina *Coelioxys* 5 spp. n.

Iches, 1399; Les abeilles sauvages du Chaco austral et leurs produits.

Jörgensen, 1447; Beobachtungen über Blumenbesuch, Biologie, Verbreitung usw. der Bienen von Mendoza, 11 spp. n.

Kieffer, 1515; *Proctotrupidae* 17 spp. n., genn. n.

Kieffer, 1520; *Cynipidae* many spp. n., genn. n.

Kieffer, 1522; *Scelionidae* 3 spp. n.

Krieger, 1625; Brazil *Echthromorpha* sp. n.

Mocsáry, 1926; *Tenthredinidae* 21 spp. n.

Schrottky, 2610; *Apidae* 25 spp. n., *Trachypus* 4 spp. n., *Ichneumonidae Braconidae* and *Chalcididae* 4 spp. n.

Schrottky, 2615; Paraguay and Argentina *Aculeata* 21 spp. n.

Schrottky, 2618; Paraguay, *Exomalopsis* 2 spp. n.

Strand, 2826; Paraguay 4 spp. n. *Apidae* and *Mutilla* sp. n.

Turner, 2964; Argentina and Chile *Thynnidae* 3 spp. n.

Turner, 2967; Minas Geraes 4 spp. n., *Spilothynnus, Scotaena* and *Anthobosca.*

Vachal, 2989; *Apidae* many spp. n.

Lepidoptera.

Bastelberger, 157; 10 spp. n., *Nephodia, Nipteria* and *Hyalopola.*

Bastelberger, 158; 3 spp. *Pityeja* and *Xanthyris.*

Bastelberger, 161; Brazil and Colombia *Geometridae* 2 spp. n., *Dialephthis* and gen. n.

Bastelberger, 163; Colombia *Geometridae* 7 spp. n.

Bastelberger, 165; Colombia and Peru 5 spp. n., *Hydriomena, Hyalopoda, Rhodomena* and *Hammaptera.*

Brabant, 325; Guyane française *Palindia* sp. n.

Dognin, 727; *Cropia* sp. n., *Notodontidae* 27 spp. n., *Geometridae* 9 spp. *Pyralidae* 7 spp. n. and gen. n., *Gauris* sp. n.

Dognin, 728; *Syntomidae* 11 spp. n., *Lithosianae* 4 spp. n., *Arctiinae* 8 spp. n., *Josiomorpha* sp. n., *Geometridae* 21 spp. n., *Palcinodes* sp. n., *Aeraga* sp. n.

Druce, 743; Peru *Yanguna* sp. n.

Druce, 746; Peru and Argentina, *Theela* 7 spp. n.

Druce, 747; Colombia and Peru 4 spp. n., *Langueys, Miselia, Gonodes* and *Emarginea.*

Druce, 749; 30 spp. n., *Bombiliodes, Napata, Correbia, Idalus, Automolis,*

Opharus, *Macronoctua*, *Calymniodes*, *Geroda*, *Mictochroa*, *Chalenatia*, *Paraeche*, *Tarachidia*, *Erastrioides*, *Parangitia*, *Angitia*, *Paracolia*, *Ormiscodes*, *Poresta*, *Lepasta*, *Dicentria*, and *Meragisa*.

Dyar, 771; Venezuela *Tmetoglene* sp. n.

Ehrmann, 799; 3 spp. n. *Eudamus*, *Achlyodes* and *Sphingicampa*.

Fassl, 857; Colombia *Anaea* sp. n.

Fruhstorfer, 1015; Esp. Santo *Zaretes* sp. n.

Fruhstorfer, 1037; Amazons *Adelpha* sp. n.

Hampson, 1244; 43 spp. n., *Syntomidae*, *Arctiidae*, *Noctuidae*, genn. n.

Hampson, 1247; *Noctuidae Acronyctinae* 15 spp. n.

Meyrick, 1904; Bolivia and Peru *Microlepidoptera* 53 spp. n., 7 genn. n.

Mos, 1967; Chanchamayo, trip.

Moulton, 1971; Brazil, Burchell's collection, *Phyciodes* 2 spp. n.

Niepelt, 2053; Ecuador *Papilio* sp. n.

Rothschild, 2482; *Arctiinae* 71 spp. n.

Rothschild, 2485; *Arctiidae* about 100 spp. n.

Rothschild, 2486; Peru *Melittia* sp. n.

Rothschild, 2487; *Arctiidae* 99 spp. n.

Schrottky, 2612; der Syntomidae Paraguays, *Phoenicoprocta* sp. n.

Schrottky, 2614; Paraguay *Eumenogaster* sp. n.

Stichel, 2811; Revision der *Riodinidae* spp. n.

Warren, 3104; *Epipleminae* gen. n., *Geometridae* about 90 spp. n.

Weeks, 3134; *Hesperiidae* 3 spp. n.

Weymer, 3165; Ecuador *Dismorphia* sp. n., Bogota *Automeris* sp. n.

Weymer, 3166; *Satyridae* 2 spp. n.; gen. n.

Trichoptera.

Ulmer, 2977; Colombia *Triaenodes* sp. n.

Ulmer, 2980; Argentinische 4 spp. n.

Ulmer and **Thienemann**, 2985; 2 spp. n., *Rhyacophylax* and *Chimarrha*.

Neuroptera.

Banks, 134; *Myrmeleonidae*, genn. and spp. n.

Navás, 2011; 4 spp. n. *Mantispa* and gen. n. aff.

Weele, 3137; 3 spp. n., Argentina *Corydalus*, Brazil and Colombia *Chloronia*.

Diptera.

Austen, 78; 2 spp. n., *Rhaphiorhynchus* and *Mydas*.

Bezzi, 228; *Townsendia* sp. n.

Bezzi, 231; aus Paraguay *Haplomera* sp. n.

Brèthes, 348; Buenos, fam. nov.

Brèthes, 352; Mendoza *Chironomidae* gen. n. and *Tanytarsus* sp. n., *Tipula* sp. n., *Bombylidae* 3 spp. n., *Empidae* gen. n., *Muscidae* 6 spp. n. and gen. n.

Dyar and **Knab**, 782; Trinidad *Culicidae* spp. n.

Enderlein, 822; Brazil *Olbiogaster* sp. n.

Enderlein, 824; Tierra del Fuego *Borboridae* gen. n.

Hendel, 1287; *Euxesta* 12 spp. n.

Hendel, 1288; *Pterocallim* 62 spp. n.

Hendel, 1292; Peru *Traginops* sp. n.

Hendel, 1294; *Ulidiinae* 14 spp. n.

Kertész, 1506; Peru *Mycetophilidae* 4 spp. n. *Platyura*, *Tetragoneura* and *Neoempheria*.

Kertész, 1508; Peru *Stratiomyidae* genn. et spp. n.

Kieffer, 1514; Pérou. *Stenoxenus* sp. n.

Lutz, 1773; Tabaniden Brasiliens und einiger Nachbarstaaten, 18 spp. n., genn. n.

Roubaud, 2496; Pérou *Simulium* sp. n.

Schrottky, 2617; Paraguay *Simulium* 3 spp. n.

Tavares, 2900; Brazil *Cecidomyidae* genn. et spp. n.

Wise, 3199; Brit. Guiana pernicious flies, short list.

Aphaniptera.

Rothschild, 2471; Chile and Argentina *Stephanocircus* 2 spp. n.

Rothschild, 2477; Chile *Parapsyllus* sp. n. and gen. n., Buenos Aires *Ceratophyllus* sp. n.

Rothschild, 2480; Chile *Stephanocircus* sp. n.

Hemiptera.

Bergroth, 199; Brazil *Reduviidae* gen. n.

Breddin, 334; *Arvelius* 5 spp. n.

Breddin, 335; *Ochlerus* 12 spp. n.

(**Breddin, 338**; Neue Rhynchoten Brachystethus, Edessa, Sibaria.)

Distant, 697; *Cercopidae* 32 spp. n.

Enderlein, 819; Brazil *Aleurodicus* sp. n.

Enderlein, 825; *Aleurodidae* gen. n.

Horváth, 1374; *Sirthenea* 3 spp. n.

Lindinger, 1732; Chile *Coccidae* gen. n.

Montandon, 1935; Peru and Bolivia *Ambrysus* 4 spp. n.

Reuter, 2389; Argentina *Capsidae* 2 spp. n., genn. n.

Reuter, 2391; S. America incl. Chile, *Capsidae* 4 spp. n., genn. n.

Reuter, 2392; Brasilia *Capsidae* 3 spp.n., *Lampethusa*, *Horcias* and gen.n.

Reuter, 2393; Venezuela *Anthocoridae* 2 spp. n., genn. n.

Reuter, 2398; Chile *Capsidae* 5 spp. n.

Reuter and **Poppius, 2400**; *Nabidae* 3 spp. n.

Schmidt, 2561; Colombia *Hyboscarta* sp. n.

Schmidt, 2566; *Diestostemma* 9 spp. n..

Schmidt, 2567; Ecuador, *Phrictus* sp. n.

Schmidt, 2568; *Issides* 15 spp. n.

Embiidae.

Enderlein, 829; 5 spp. n.

Psocidae.

Enderlein, 817; Ecuador 2 spp. n.

Thysanoptera.

Bagnall, 103; 2 spp. n., gen. n.

Plecoptera.

Enderlein, 813; *Neoperla* 6 spp. n.

Enderlein, 826; 5 spp. n., genn . n.

Ephemeridae.

Petersen, 2159; Mendoza *Cloëon* sp. n.

Odonata.

Calvert, 436; Neotropical region 64 spp. n.

Förster, 922; 4 spp. n. gen. n.

Martin, 1835; *Aeschninae* 11 spp. n. *Subaeschna* gen n., *Gynacantha*, *Neuraeschna* and *Staurophlebia*.

Orthoptera.

Burr, 408; Peru *Pyragra* sp. n.

Hanesck, 1248; *Tetriginae* 4 spp. n.

Rehn, 2340; Brazil, *Acridiidae* spp. n., genn. n.

Shelford, 2682; *Blattidae* 9 spp. n.

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Prothyma heteromallicollis p. 312, *hopkinsi* p. 313, Philippines, **spp. n.**, HORN D. ent. Zs. **1909**.

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Aristus infans **sp. n.** Syria, ABEILLE p. 315 C. R. soc. biol. **67**.

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†*A.* ? *primaeva* sp. n. Miocene Oeningen, COCKERELL p. 316 Entomologist 42.

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†*Anthophorites tibiania* and *longaeva* Heer, COCKERELL p. 315 Entomologist 42.

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Apis mellifica Anzahl der Flügelhaken, BACHMETJEW Zs. wiss. Zool. 94 pp. 1–80; Gehirn, JONESCU Jenaische Zs. Natw. 45 pp. 111–180 5 Taf.; Lange der Zunge bei verschiedenen Rassen, AFANASJEV Russ. pčelovod. listok. 24 pp. 352–354; Einfluss der Nahrung und der Arbeiterinnen auf die Stärke der Brut, ČUJEV Stepnoje pčel 3 pp. 171–176; Rassen, deren Einführung, PARADIEV Pčelov. žizni 3 1908 pp. 79–88; Rassenverbesserung, SNIŽNEVSKIJ Zs. p. Olše. selsk. choz. pižn. Ross. 79 pp. 1–11; Regulierung der Brut, ČUJEV Stepnoje pčelov. Novočerkask 3 pp. 195–204; und der rote Klee, ERDOKIMOV Pčelov. žizni 4 pp. 695–698; Zelle vom mathematischen Gesichtspunkte, BELJAJEVSKIJ Pčelov. žizni 4 pp. 804–809; Psychologie, SNIŽNEVSKIJ Russ. pčelov. listok. 24 pp. 110–112; der Krim, PRITULENKO Pčelov. žizni 4 pp. 399–410; Zuckergehalt der Nahrung, SOLOVJEV Pčelov. žizni Vistka 4 pp. 309–311; Ueberwinterung, STOMRIANSKIJ Pčelov. žizni 4 pp. 301–307; Künstliche Aufzucht von Weisel, IVANOV Pčelov. žizni 3 1908 pp. 148 etc.; Parthenogenese, SMIRNOV Pčela 10 pp. 8–18; Parthenogenese, GRUDNOV Pčela 10 pp. 84–88 & 212–218; Befruchtung, Parthenogenese, DUBROV Pčelovodstvo 9 pp. 22–23 42–46; Geschlechtsbestimmung, DICKEL Zool. Anz. 34 pp. 212–223 & 230–248, Meine Bienenversuche und die „Stimmen der Wissenschaft," BRESSLAU Bienenwirtsch. Centralbl. 45 pp. 50–54; Entgegnung v. H. v. BUTTEL t.c. pp. 68–69 132–134; Psychologie, SNIŽINSKIJ Russ. pčelov. listok. 24 pp. 52–55 88–91; Instinkte, Schwärmen, BUTKEVIČ Pčela 10 pp. 146–152; individuelle Verschiedenheiten, SAJÓ Prometheus 21 pp. 42–43; Zwei Weisel in einem Stock, FISUN Pčelovodstvo 9 pp. 18–21 46–51 & RYBAKOV Russ. pčelov. listok 24 pp. 51–52; Mehrere Weibchen in einem Stock, ILINSKIJ Russ. pčelovod. listok 24 pp. 15–19; Erstechen einer Drohne durch eine frischausgeschlüpfte Königin, WAETZEL Zool. Anz. 34 pp. 639–640; Kopf der larve, ZANDER Zool. Anz. 34 pp. 763–765; Observations, HUBER Kazani [Soc. d'Apicult. de Kazan] 1908 pp. 192 + 3 2 pls.; Unsere Honigbiene, Popular, SAJÓ Stuttgart Kosmos 1909 109 pp.

†*Apis mellifera* in amber or copal ?, COCKERELL p. 317 Entomologist 42.

Apista gaullei, limbella, Bolivia spp. n., VACHAL Rev. ent. Caen 28 p. 37.

Augochlora; rearranged, *Lasioglossia* n. n. for *Acidalia* Schr., SCHROTTKY p. 481

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Augochloropsis cockerelli (= *berenice* Cock.) **sp. n.** Paraguay, Schrottky p. 147 T.c.

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†*Chalcobombus* gen. n. near *Bombus*, *humilis* sp. n. baltischer Bernstein, COCKERELL Königsberg Schr. physik. Ges. **50** pp. 11-12.—*C. martialis* sp. n. Baltischer Bernstein, COCKERELL T.c. p. 22.

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†*Ctenoplectrella* gen. n. *Megachilidae*, *viridiceps* sp. n. baltischer Bernstein, COCKERELL Königsberg Schr. physik. Ges. **50** p. 19.

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†*Electrapis* gen. n. near *Apis*, *meliponoides* sp. n. baltischer Bernstein, COCKERELL Königsberg Schr. physik. Ges. **50** pp. 7–9.—*E. tornquisti* sp. n. baltischer Bernstein, COCKERELL Königsberg Schr. physik. Ges. **50** p. 23.

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†*Glyptapis* gen. n., *Megachilidae*, *mirabilis*, *reticulata*, *fuscula*, *reducta*, spp. n. baltischer Bernstein, COCKERELL Königsberg Schr. physik. Ges. **50** pp. 13–18.

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†*H. miocenicus* sp. n. Colorado Miocene, COCKERELL Ent. News **20** p. 160.

Hemisia Klug, SCHROTTKY Proc. Ent. Soc. Washington **11** p. 161.

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Zygaena; new forms, DZIURZYŃSKI Wien JahrBer. Entom. Ver. **19** pp. 135–136; Variationen, DZIURZYŃSKI T.c. p. 143; *Zygaena*, palaearktischen Arten, DZIURZYŃSKI Berliner ent. Zs. **53** pp. 250–253; Raupen, DZIURZYŃSKI Intern. ent. Zs. **3** pp. 64–65; *Z. purpuralis*, TRAUTMANN Intern. ent. Zs. **2** p. 295; *exulans*, dunkle Stücke, TRAUTMANN Intern. ent. Zs. **2** p. 296; *Zygaena*, Kopula, verschiedenen Arten, MEDER Intern. ent. Zs. **3** p. 27; *astragali* abb. n. *flava* and *flavicola* Schwäbische Alb, KAUFMANN Ent. Zs. **23** p. 121; *carniolica* var. n. *rhodosphaera* Mödling, SCHAWERDA Wien Verh. Zool.-Bot. Ges. **59** p. 326; *jucunda*, *segregata* ab. n. *simplex*, *pheretes* ab. n. *minor* and ab. n. *pupillata* etc.; MUSCHAMP Bul. Soc. Lép. Genève **1** p. 366–369.

NOCTUIDAE.

Catalogue of *Noctuidae*: *Acronyctinae* pt. 2; HAMPSON Cat. Lep. Phal. **8.**

Part i of an iconography of European *Noctuidae* has been issued by CULOT of Geneva.

Bestimmungstabellen für die Noctuiden Russlands Lief iii (Russ.), SINEGUB pp. 1–160 18 cm. 0,35 Rub.

The genitalia of ♂ *Noctuidae*, British species, PIERCE 100 pp. & 32 pls. Liverpool 1909.—Review, CHAPMAN Entomologist **42** pp. 102–104.

Neues Sinnesorgan am Abdomen der Noctuiden, DEEGENER Zool. Jahrb. Anat. **27** pp. 631–650 1 Taf.

Aboricornis chrysopepla pl. iv f. 12 & p. 106, Hampson Tr. zool. Soc. **19**.

Acantholipes ochrota **sp. n.** Ruwenzori pl. iv f. 23 & p. 113, Hampson T.c.

Acopa incana pl. cxxxii f. 29 & p. 411, *perpallida* f. 30 & p. 412, Hampson Cat. Lep. Phal. **8**.

Acosmetia arida **sp. n.** Egypte, Joannis Paris Bul. soc. ent. **1909** p. 70. —*A. tenuipennis* **sp. n.** Formosa p. 412 & pl. cxxxiii f. 1, *arida* f. 2 & p. 414, Hampson Cat. Lep. Phal. **8**.

Acronycta albiorbis Travancore p. 74, *albistigma* Japan pl. cxxv f. 12 & p. 93, **spp. n.**, *incretata* n. n. for *increta* Butl. p. 109, *cyanescens* Canada pl. cxxvi f. 5 & p. 129, *pulverosa* Japan (= *pruinosa* Leech nec Guen.) f. 9 & p. 133, **spp. n.**, *chionochroa* n. n. for *lepusculina* Sm. & D. nec Guen. f. 13 & p. 136, *metaxantha* **sp. n.** W. China pl. cxxvi f. 17 & p. 139; *theodora* pl. cxxiv f. 9 & p, 62, *mansueta* f. 10 & p. 63, *hemileuca* f. 11 & p. 64, *vinnula* f. 12 & p. 65, *paupercula* f. 13 & p. 66, *lepetita* f. 14 & p. 67, *parallela* f. 15, *albarufa* f. 16, p. 68, *connecta* f. 17 & p. 69, *exilis* f. 18 & p. 70, *modica* f. 19, *ovata* f. 20 p. 71, *haesitata* f. 21 & p. 72, *hasta* f. 22 & p. 73, *marmorata* f. 23 & p. 74, *crenulata* f. 24 & p. 76, *fragilis* f. 25, *liturata* f. 26, p. 77, *brumosa* f. 27 & p. 78, *inclara* f. 28, *clarescens* f. 29, p. 80, *minella* f. 30 & p. 81, *superans* f. 31 & p. 82, *subochrea* f. 32 & p. 83, *noctivaga* pl. cxxv f. 1 & p. 84, *carbonaria* f. 2 & p. 85, *afflicta* f. 3 & p. 86, *hamamelis* f. 4 & p. 87, *increta* f. 5, *retardata* f. 6, p. 88, *caesarea* f. 7 & p. 89, *implicta* f. 8, *illita* f. 9, p. 90, *pruinosa* f. 10 & p. 91, *consanguis* f. 11 & p. 92, *albistigma* f. 12 & p. 93, *catocaloida* f. 13 & p. 95, *quadrata* f. 14, *strigulata* f. 15, p. 101, *thoracica* f. 16 & p. 102, *laetifica* f. 17 & p. 103, *lobeliae* f. 18 & p. 104, *manitoba* f. 19, *furcifera* f. 20, p. 105, *maxima* f. 21 & p. 112, *iria* f. 22 & p. 113, *taurica* f. 23 & p. 115, *eldora* f. 24 & p. 118, *tritona* f. 25 & p. 119, *falcula* f. 26, *elizabeta* f. 27, p. 120, *revellata* f. 28 & p. 121, *grisea* f. 29 & p. 122, *funeralis* f. 30 & p. 124, *morula* f. 31 & p. 125, *transversata* f. 32 & p. 126, *tota* pl. cxxvi f. 1, *radcliffei* f. 2, p. 127, *felina* f. 3 & p. 128, *frigida* f. 4 & p. 129, *pacifica* f. 6, *interrupta* f. 7, p. 130, *spinigera* f. 8 & p. 131, *canadensis* f. 10, *cinderella* f. 11, p. 135, *lepusculina* f. 12 & p. 136, *populi* f. 14 & p. 137, *similana* f. 15, *gastridia* f. 16, p. 138, *nigricans* f. 18, *emaculata* f. 19, p. 140, *impressa* f. 20 & p. 141, *distans* f. 21 & p. 142, *edolata* f. 22, *lithospila* f. 23, p. 143, *barnesi* f. 24 & p. 144, *perdita* f. 25, *extricata* f. 26, p. 145, *rubricoma* f. 27, *centralis* f. 28, p. 148, *tiena* f. 29, *bicolor* f. 30, p. 150, *betulae* f. 31, *americana* f. 32, p. 151. *hesperida* pl. cxxvii f. 1 & p. 152, *dactylina* f. 2 & p. 154, *insita* f. 3, *innotata* f. 4, p. 155, *othello* f. 50 p. 156, *longa* f. 6, *sperata* f. 7, p. 157, *cretata* f. 8 & p. 160, Hampson Cat. Lep. Phal. **8**.—*A. aini*, Zucht, Gadolla Graz. Mitt. Natw. Ver. Steierm. **45** p. 443.—*A. pontica* Vorkommen in Mitteleuropa, Fischer Ent. Rdsch. **26** p. 29.—*A. megacephala*, eine dunkle Abart, Warnecke Ent. Zs. **23** p. 129.—*A. aceris* food-plant, Sich p. 237 Entomologist **42**.

Acroria mexicana **sp. n.** Jalapa p. 278 pl. cxxix f. 4, *denterna* f. 3 & p. 277, *diminuta* f. 5 & p. 279, Hampson Cat. Lep. Phal. **8**.

Acroriodes **gen. n.** for *diplolopha* Dr., Hampson p. 279 T.c.

Agriopodes **gen. n.** p. 38, type *Moma fallax*, *geminata* p. cxxiii f. 27 & p. 39, *tybo* f. 28, *viridata* f. 29 p. 40, Hampson T.c.

Agrotis elacopis pl. iv f. 7 & p. 106, Hampson Tr. zool. Soc. **19**.—*A. formosensis* **sp. n.** Formosa, Hampson p. 369 Ann. Nat. Hist. **4**.—*Agrotis*; Entwicklungsstillstand oder Sommerruhe, Rangnow Berliner ent. Zs. **53** pp. 295–296.—*A. cinerea*, Biologie, Srdínko Čas. České Spol. Entomolog. **1909** pp. 152–158.—*A. constanti*, Mœurs et métamorphoses, Brown Paris Ann. soc. ent. **78** pp. 1–4 fig.—*A. corticea*, Zwitter, Ramme Intern. ent. Zs. **2** p. 313.—*A. cursoria*, Formen, Riesen Berliner ent. Zs. **54** p. (5).—*A. latens*, Biologie und Zucht, Srdínko Intern. ent. Zs. **2** p. 259; Biologie, Srdínko Čas. České Spol. Entomolog. **1908** p. 87.—*A. lucipeta* Lebensweise und Zucht, Srdínko Intern. ent. Zs. **3** pp. 89–90 95; Biologie, Srdínko Čas. České Spol. Entomolog. **1909** p. 4.—*A. margaritacea*, Srdínko Čas. České Spol. Entomolog. **1908** pp. 57–58.—*A. molothina* in der Senne, Landwehr Ent. Zs. **23** p. 128; Verbreitung im Deutschland, Warnecke Ent. Zs. **23** p. 90.—*A. petersenii* nom. n. pro *eversmanni*, Krulikovskij Rev. russ. ent.

8 p. 272.—*A. segetum* Biologie, Beschreibung, Parasiten, Futterpflanzen, Bekämpfung in Russland, RASSIKOV Trd. b. entom. učen. kom. Gl. Upr. Zeml. **6** 5 pp. 1–122 4 Taf.; Schaden und Auftreten in Südrussland, Ei, Merkmale der Raupe und Puppe, SCHREINER Selisk. chozïain **24** p. 935 etc.; Schaden an Runkelrüben, VASILJEV Vestn. sach. promyšl. **10** pp. 565–570; Dauer der Metamorphose, Flug, Bekämpfung, POSPELOV Vestn. sacharn. promyšl. **10** pp. 130–135 172–177; im Gouv. Charikov, Lebensgeschichte, Generationen etc., KURDINSKOV Charikov 1908 p. 31; *A. segetum, trifolii*, Verwandlung, Zeit des Auftretens, Schaden, Bekämpfung im Gouv. Kiev, POSPELOV Chozïajstvo **4** pp. 152–165 199–207.

Aiteta escalerai sp. n. Spanish Guinea, KUEIL p. 494 Mem. Soc. espan. **1**.

Amiana continens pl. cxxxvi f. 25 & p. 539, *niima* f. 26 & p. 540, HAMPSON Cat. Lep. Phal. **8**.

Amphidrina pexicera sp. n. Cape Colony p. 295, *glaucistis* pl. cxxix f. 7 & p. 296, *spaelotidia* f. 8 & p. 297, HAMPSON T.c.

Andropolia illepida pl. cexvii f. 30 & p. 200, *pulverulenta* f. 31 & p. 201, *pallifera* f. 32 & p. 202, *dispar* pl. cxxviii f. 1 & p. 203, *ochracea* f. 25, *olorina* f. 29, p. 204, *aedon* f. 5 & p. 205, *extincta* f. 8 & p. 206, *maxima* f. 32 & p. 207, *acera* f. 4 & p. 208, HAMPSON T.c.

Angitia albirufa sp. n. Peru, DRUCE p. 464 Ann. Nat. Hist. **3**.

Antaplaga subfumosa sp. n. Mexico, DYAR Proc. Ent. Soc. Washington **11** p. 25.

Anumeta and *Palpangula* synonymy, distinguished from *Melipotis*, JOHN p. 116 Rev. russe Ent. **9**.

Anydrophila gen. n. for part of *Palpangula*, JOHN Rev. russ. ent. **9** pp. 123–125.

Arcyophora clathrimaculata, paperitella, spp. n., Zambesi, STRAND Arch. Natg. **75** 1 p. 380.

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Athetis melanopis p. 301 pl. cxxix f. 10, *nephrosticta* f. 11 & p. 303, *poliostrota* f. 13 & p. 304, *foveata* p. 307, *gonionephra* p. 315 & f. 22, S. Africa, *leucosticta* E. Africa p. 323 & f. 26, *longiciliata* Assam p. 324 & f. 28, *melanosticta* E. Africa p. 342 pl. cxxx f. 10, *flavipuncta* f. 11, *croceipuncta* f. 12, p. 343, *heliastis* p. 348 & f. 18, S. Africa, *anomoeosis* E. Africa f. 19 & p. 349, *leuconephra* f. 21 & p. 350, *melinopis* f. 23 & p. 351, *melanephra* p. 352 & f. 25, S. Africa, *flavitincta* p. 316 & f. 29, *stygia* p. 357 & f. 30, Punjab, *aeschria* Cape Colony p. 358 & f. 31, *hyperaeschra* E. Africa p. 364 & pl. cxxxi f. 1, spp. n., *chionopis* n. n. for *leucopis* Hamps. p. 299, *albipuncta* pl. cxxix f. 9 & p. 300, *rufipuncta* f. 12 & p. 303, *micrortera* f. 14 & p. 304, *tenebrata* f. 15, *expolita* f. 16, p. 305, *externa* f. 17, *cervina* f. 18, p. 306, *castaneipars* f. 19 & p. 307, *conspicua* f. 20 & p. 313, *triquetra* f. 21 & p. 314, *praetexta* f. 23 & p. 316, *placata* f. 24 & p. 317, *divisa* f. 25 & p. 318, *interstincta* f. 27 & p. 324, *fasciata* f. 29, *satellitia* f. 30, p. 325, *conformis* f. 31 & p. 326, *fusca* f. 32, *morosa* pl. cxxx f. 1, p. 328, *rebeli* f. 2 & p. 329, *rullschlegeli* pl. cxxx f. 3 & p. 332, *bremusa* f. 4, *multifera* f. 5, p. 334, *himalayica* f. 6 & p. 335, *chinensis* f. 7 & p. 336, *extima* f. 8 & p. 337, *grisea* f. 9 & p. 338, *ignara* f. 13 & p. 345, *pigra* f. 14, *sincera* f. 15, p. 346, *cognata* f. 16 & p. 347, *singula* f. 17 & p. 348, *meralis* f. 22 & p. 351, *glauca*

f. 24 & p. 352, *atrirena* f. 26 & p. 353, *absorbens* f. 27 & p. 354, *vicina* f. 28 & p. 355, *tarda* f. 32 & p. 360, *smintha* p. 361 & pl. cxxxi f. 1, *maculatra* f. 2 & p. 362, *drasteroides* f. 4 & p. 365, *melanurina* f. 5 & p. 367; HAMPSON Cat. Lep. Phal. **8.**

Balsa labecula Gr. pl. cxxxiv f. 2 & p. 456, HAMPSON T.c.

Basilodes pterochalcea p. 24, *chalcotoxum*, *chryseochilus*, p. 25, Mexico, **spp. n.**, DYAR Proc. Ent. Soc. Washington **11.**

Bleptina nephelopera **sp. n.** Ruwenzori pl. iv f. 26 & p. 115, HAMPSON Tr. zool. Soc. **19.**

Bocula odontosema **sp. n.** Kuranda, TURNER Proc. Linn. Soc. **34** p. 347.

Borolia pyrostrota pl. iv f. 10, *phaeopasta* f. 11, p. 106, HAMPSON Tr. zool. Soc. **19.**—*B. confluens* **sp. n.** Nairobi, BETHUNE-BAKER p. 430 Ann. Nat. Hist. **3.**—*B. microsticta* **sp. n.** Townsville, TURNER Proc. Linn. Soc. **34** p. 341.

Cacyparis melanolitha **sp. n.** Kuranda, TURNER Proc. Linn. Soc. **34** p. 344.

Calamistis obliquifascia **sp. n.** Ruwenzori pl. iv f. 15 & p. 108, HAMPSON Tr. zool. Soc. **19.**

Calliodes xanthopyga **sp. n.** Ingham, TURNER Proc. Linn. Soc. **34** p. 345.

Callogonia Hampson; a synonym of *Telesilla* H.-S., JOHN Rev. russ. ent. **9** pp. 145–147 pl. i.

Callopistria purpureofasciata ab. *srdinkoana* Böhmen. JOUKL Čas. České Spol. Entomolog. **1908** pp. 96–100.

Calocampa mertena **sp. n.** Washington and British Columbia, SMITH New York J. Ent. Soc. **17** p. 61.

Calophasidia **gen. n.** p. 180 type *Megalodes lucala* Swinh., *dentifera* **sp. n.** W. Australia pl. cxxvii f. 17 & p. 182, HAMPSON Cat. Lep. Phal. **8.**

Calpe wintgensi **sp. n.** O.-Afrika, STRAND D. ent. Zs. Iris **22** p. 116.

Calymnia ethiopica **sp. n.** Ruwenzori pl. iv f. 14 & p. 107, HAMPSON Tr. zool. Soc. **19.**

Calymniodes acamas **sp. n.** Bolivia, DRUCE p. 459 Ann. Nat. Hist. **3.**

Capnodes pyrochroa **sp. n.** Ituri forest, BETHUNE-BAKER p. 432 Ann. Nat. Hist. **3.**—*C. silignia* **sp. n.** Kuranda, TURNER Proc. Linn. Soc. **34** p. 347.

Caradrina avicula **sp. n.** Uralsk, KRULIKOVSKIJ Rev. russ. ent. **9** p. 112. —*C. selini* var. n. *mairei* Aegypten, DRAUDT Intern. ent. Zs. **3** p. 207.—*C. gilva*, Raupe, PÜNGELER Verh. z.-b. Ges. Wien **59** p. (238).

Catabena lineolata pl. cxxviii f. 14 & p. 235, *vitrina* f. 15, *terens* f. 16, p. 236, HAMPSON Cat. Lep. Phal. **8.**

Catada phaeopasta **sp. n.** Ruwenzori pl. iv f. 24 & p. 115, HAMPSON Tr. zool. Soc. **19.**

Catamecia connectens pl. cxxxvi f. 27, *deceptrix* f. 28, p. 542, *minima* f. 29 & p. 543, HAMPSON Cat. Lep. Phal. **8.**

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Centhrarthra **gen. n.**, *furcifera* **sp. n.** Cape Colony, HAMPSON p. 284 Cat. Lep. Phal. **8.**—*C. requies* **sp. n.** Mexico, DYAR Proc. Ent. Soc. Washington **11** p. 21.

Cetola rubricosta pl. cxxxii f. 32 & p. 183, *radiata* **sp. n.** Natal p. 184, HAMPSON Cat. Lep. Phal. **8.**

Chabuata crenilinea **sp. n.** Peru, HAMPSON p. 380 Ann. Nat. Hist. **4.**

Chalenata ustota **sp. n.** Colombia, DRUCE p. 461 Ann. Nat. Hist. **3.**

Chusaris opisthospila **sp. n.** Kuranda, TURNER Sydney Proc. Linn. Soc. **34** p. 355.

Cirphis perstriata sp. n. Rodriguez, HAMPSON p. 384 Ann. Nat. Hist. 4.

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Coenobia rufa oviscapt., EDELSTEN p. 108 & pl. x Ent. Rec. 21. ab. n. *fusca*, BANKES p. 4 Ent. Record 21.

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Corgatha anthina sp. n. Toowomba, TURNER Proc. Linn. Soc. N. S. Wales 34 p. 351.

Craniophora albonigra pl. cxxiv f. 3 & p. 53, *praeclara* f. 4 & p. 54, *nubilata* f. 5, *pontica* f. 6, p. 55, *obscura* f. 7 & p. 58, HAMPSON Cat. Lep. Phal. 8.

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Cropia fuscoviridis sp. n. Brit. Guiana, DOGNIN p. 74 Ann. Soc. ent. Belgique 53.

Cucullia atrimacula Transvaal p. 385, *tucumani* Argentina p. 386, spp. n., HAMPSON Ann. Nat. Hist. 4.—*C. obtusa* sp. n. Arizona, SMITH J. New York Ent. Soc. 17 p. 63.

Dascochaeta gen. n. for *Agriopis viridis* Leech, WARREN in Seitz Grossschmett pal. 3 p. 11.—*D. metaphaea* W. *China* p. 23 pl. cxxiii f. 19 *brevipennis* Tibet p. 27 & f. 21, spp. n., HAMPSON Cat. Lep. Phal. 8.—*D. vivida* pl. cxxiii f. 20 p. 25, *discribrunnea* f. 22 p. 32, *marmorea* f. 23 p. 33, *verbenata* f. 24 p. 34, *beryllodes* f. 25 p. 35, HAMPSON T.c.

Delta goniosema Mexico pl. cxxvii f. 22 & p. 191, *campyla* Sierra Leone f. 25 & p. 194, spp. n., *ramosula* f. 23, *stuarti* f. 24, p. 193, *gnorima* f. 26 & p. 195, *detersina* f. 27, *indica* f. 28, p. 196 *albiclava* f. 29 & p. 198, HAMPSON T.c.

Dianthoecia caesia ab. *pecirkai* Böhmen, JOUSL Čas. Ceské Spol. Entomolog. 1908 pp. 96–100.

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Diomea disticta sp. n. Ituri forest, BETHUNE-BAKER p. 433 Ann. Nat. Hist. 3.

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†*Reisia* **nom. n.** for *Handlirschia* Reis, HANDLIRSCH p. 81 Abh. Ges. Nürnberg **18.**

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†*Typus* (non *Tupus*) Sellards, SELLARDS p. 151 Amer. J. Sci. 1909.

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XIII. PROCHORDATA

incl. ENTEROPNEUSTA

ARRANGED BY

I. B. J. SOLLAS

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I.—TITLES.

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XIV. VERTEBRATA
(GENERAL)

i.e., complementary to Mammalia, Aves, Reptilia, and Pisces

ARRANGED BY

D. SHARP

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XVI. REPTILIA AND BATRACHIA

ARRANGED BY

C. L. BOULENGER

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W. L. SCLATER, M.A.

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R. LYDEKKER

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* The total number of names in this index is 1,820, distributed as follows:—*Protozoa*, 36; *Porifera*, 9; *Coelenterata*, 26; *Echinodermata*, 68; *Vermidea*, 66; *Brachiopoda*, 5; *Bryozoa*, 53; *Mollusca*, 83; *Crustacea*, 99; *Arachnida*, 47; *Myriopoda*, 66; *Insecta*, 1138; *Prochordata*, 2; *Pisces*, 42; *Reptilia and Batrachia*, 24; *Aves*, 23; *Mammalia*, 33. The total last year was 1,854.

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Tettilobus, *Hancock*. Ins. 427
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Zoomyxa, *Ehrenberg*, Prot. 48
Zschokkella, *Bütschli*, Verm. 39
Zschokkella, *Auerbach*, Prot. 59
Zyzomys, *Thomas*, Mamm. 67

LIST OF ABBREVIATIONS WITH TITLES OF THE JOURNALS

Aarau, Mitt. Nat. f. Ges.	Mitteilungen der naturforschenden Gesellschaft, Aarau.	1 Sw.
Aarsb. Norges Fiskerier, Bergen	Aarsberetning vedkommende Norges Fiskerier, Bergen.	5 Nor.
Aarsb. off. Foranst. Landb., Kristiania	Aarsberetning angaaende de offentlige Foranstaltninger til Landbrugets Fremme.	1 Nor.
Abeille, Paris	Abeille (L'). Soc. Bebl. Paris [irregul.]	2 Fr.
Abh. geol. Specialkarte Els.-Lothr., Strassburg	Abhandlungen zur geologischen Specialkarte von Elsass-Lothringen. Strassburg. [2-3 H. jährl.]	1 Ger.
Acireale, Rend. Mem. Acc. Zelanti	Rendiconti e Memorie della R. Accademia degli Zelanti, Acireale.	1 It.
Actes Muséum hist. nat., Rouen	Actes du Muséum d'histoire naturelle, Rouen (Seine-Inférieure). [irregul.]	5 Fr.
Adelaide, S. Aust., Mem. R. Soc.	Memoirs of the Royal Society of South Australia.	3 S. Aus.
Adelaide, S. Aust., Proc. R. Soc.	Proceedings of the Royal Society of S. Australia, Adelaide.	5 S. Aus.
Adelaide, S. Aust., Trans. R. Soc.	Transactions of the Royal Society of S. Australia, Adelaide.	9 S. Aus.
Agric. Exp. Sta., Agricultural Coll., Bull.	Agricultural Experimental Station, Agricultural College. Bulletin.	— U.S.
Agric. Exp. Sta., Arizona, Tucson, Bull.	University of Arizona. Arizona Agricultural Experiment Station, Tucson. Bulletin.	— U.S.
Agric. Exp. Sta., California, Berkeley, Bull.	Agricultural Experiment Station of California, Berkeley. Bulletin.	— U.S.
Agric. Exp. Sta., California, Berkeley, Cir.	Agricultural Experimental Station, California, Berkeley. Circular.	— U.S.
Agric. Exp. Sta., California, Sacramento, Bull.	University of California Publications, College of Agriculture. Agricultural Experiment Station, Sacramento. Bulletin.	— U.S.
Agric. Exp. Sta., California, Sacramento, Rep.	University of California publications. Report of work of the Agricultural Experiment Station of the University of California, Sacramento.	— U.S.
Agric. Exp. Sta., Colorado, Fort Collins, Bull.	Agricultural Experiment Station of Colorado, Fort Collins. Bulletin.	— U.S.

Agric. Exp. Sta., Colorado, Fort Collins, Rep.	Agricultural Experiment Station of Colorado, Fort Collins. Report.	— U.S.
Agric. Exp. Sta., Connecticut, Storrs, Bull.	Agricultural Experimental Station. Connecticut, Storrs. Bulletin.	— U.S.
Agric. Exp. Sta., Cornell Univ., Bull.	Agricultural Experiment Station, Cornell University. Bulletin.	— U.S.
Agric. Exp. Sta., Florida, Jacksonville, Bull.	Bulletin of the Experiment Station of Florida at the State Agricultural College, Jacksonville.	— U.S.
Agric. Exp. Sta., Illinois, Springfield, Bull.	University of Illinois Agricultural Experiment Station, Springfield. Bulletin.	— U.S.
Agric. Exp. Sta., Illinois, Urbana, Bull.	Agricultural Experiment Station of Illinois, Urbana. Bulletin.	— U.S.
Agric. Exp. Sta., Kansas, Manhattan, Bull.	Agricultural Experimental Station. Kansas, Manhattau. Bulletin.	— U.S.
Agric. Exp. Sta., Kentucky, Lexington, Bull.	Agricultural Experimental Station. Kentucky, Lexington. Bulletin.	— U.S.
Agric. Exp. Sta., Minnesota, St. Anthony Park, Bull.	Agricultural Experimental Station. Minnesota, St. Anthony Park. Bulletin.	— U.S.
Agric. Exp. Sta., Montana, Bozeman, Bull.	Agricultural Experimental Station. Montana, Bozeman. Bulletin.	— U.S.
Agric. Exp. Sta., Montana, Bozeman, Rep.	Agricultural Experiment Station, Montana, Bozeman. Report.	— U.S.
Agric. Exp. Sta., Nebraska, Lincoln, Bull.	Agricultural Experimental Station. Nebraska, Lincoln. Bulletin.	— U.S.
Agric. Exp. Sta., Nevada, Reno, Bull.	Agricultural Experimental Station. Nevada, Reno. Bulletin.	— U.S.
Agric. Exp. Sta., New Hampshire, Durham, Tech. Bull.	Agricultural Experimental Station. New Hampshire, Durham. Technical Bulletin.	— U.S.
Agric. Exp. Sta., New Jersey, New Brunswick, Bull.	Agricultural Experimental Station. New Jersey, New Brunswick. Bulletin.	— U.S.
Agric. Exp. Sta., New Mexico, Las Cruces, Bull.	New Mexico College of Agriculture and the mechanic Arts. Agricultural Experiment Station, Las Cruces. Bulletin.	— U.S.
Agric. Exp. Sta., New York, Ithaca, Bull.	Bulletin of the Agricultural Experiment Station at Ithaca, New York.	— U.S.
Agric. Exp. Sta., Ohio, Columbus, Bull.	Bulletin of the Ohio Agricultural Experiment Station, Columbus. Technical Series.	— U.S.
Agric. Exp. Sta., Washington, Pullman, Bull.	Bulletin of the Agricultural Experiment Station at Pullman, Washington.	— U.S.
Agric. Exp. Sta., West Virginia, Morgantown, Bull.	Bulletin of the Agricultural Experiment Station at Morgantown, West Virginia.	— U.S.
Agric. Exp. Sta., Wisconsin, Madison, Bull.	Agricultural Experimental Station. Wisconsin, Madison. Bulletin.	— U.S.
Agric. Gaz., Sydney, N.S.W.	Agricultural Gazette, Sydney, N.S.W. ...	1 N.S.W.

Agric. Journ. Ind., Calcutta	The Agricultural Journal of India. Calcutta.	— Ind.
Agric. Led., Calcutta	Agricultural Ledger, Calcutta	1 Ind.
Akad. Ert., Budapest	Akademiai Értesitő, Budapest. [Akademischer Anzeiger, Budapest.]	— Hun.
Akvarium, Moskva	Аквариумъ. комнатныя растенія. Сборникъ изданный Московскимъ Обществомъ Любителей аквариума и комнатныхъ растеній. Москва [L'aquarium et les plantes d'appartement. Recueil édité par la Société des Amateurs d'aquariums et des plantes d'appartement. Moscou.]	— Rus.
Alabama, Bull. Geol. Surv., University P.O.	Bulletin of the Geological Survey of Alabama, University P.O.	1 U.S.
Albany, N.Y., Trans. Alb. Inst.	Transactions of the Albany Institute, Albany, N.Y.	7 U.S.
Albany Univ., N.Y., St. Educ. Dept., Mus. Bull.	New York State Education Department. New York State Museum Bulletin, Albany, N.Y.	4 U.S.
Albany Univ., N.Y., St. Educ. Dept., Mus. Mem.	New York State Education Department. New York State Museum Memoirs, Albany, N.Y.	5 U.S.
Albany Univ., N.Y., St. Educ. Dept., Mus. Rep.	New York State Education Department. New York State Museum Annual Report, Albany, N.Y.	6 U.S.
Állatorv. L., Budapest	Állatorvosi Lapok, Budapest. [Tier-ärztliche Blätter, Budapest.]	— Hun.
Állatt. Közlem., Budapest	Állattani Közlemények, Budapest. [Zoologische Mitteilungen, Budapest.]	22 Hun.
Allg. Fischereiztg., München	Allgemeine Fischerei-Zeitung, red. v. Hofer u. Weigelt. München. [3 monatl.]	24 Ger.
Allg. Forstztg., Frankfurt a. M.	Allgemeine Forst- und Jagd-Zeitung, hrsg. v. Lorey. Frankfurt a. M. [monatl.] Nebst Supplement: Jahresbericht über Veröffentlichungen und wichtigere Ereignisse im Gebiete des Forstwesens etc.	25 Ger.
Allg. Zs. Ent., Neudamm	Allgemeine Zeitschrift für Entomologie, hrsg. v. Schneider u. Lehmann. Neudamm. [4 monatl.]	34 Ger.
Alnwick, Proc. Berwicks. Nat. Cl.	History and Proceedings of the Berwickshire Naturalists' Club, Alnwick. Etc., etc., etc.	2 U.K.
Altenburg, Mitt. Osterland	Mitteilungen aus dem Osterlande, hrsg. v. d. naturforschenden Gesellschaft des Osterlandes zu Altenberg. Altenburg. [2 jahr.]	38 Ger.
Amer. Geol., Minneapolis, Minn.	American Geologist, Minneapolis, Minnesota.	13 U.S.

Amer. J. Anat., Philadelphia, Pa.	The American Journal of Anatomy, published by the Wistar Institute of Anatomy and Biology. Philadelphia, Pa. [includes Proc. Ass. Amer. Anat.]	14 U.S.
Amer. J. Physiol., Boston, Mass.	American Journal of Physiology, Boston, Mass.	17 U.S.
Amer. J. Sci., New Haven, Conn.	American Journal of Science, New Haven, Conn.	19 U.S.
Amer. Mus. J., New York, N.Y.	The American Museum Journal. American Museum of Natural History. New York, N.Y.	554 U.S.
Amer. Nat., New York, N.Y., or Lancaster, Pa. [formerly Boston, Mass.]	The American Naturalist, New York, N.Y., *or* Lancaster, Pa.	21 U.S.
Amer. Ornith., Worcester, Mass.	American Ornithology. For the Home and School. Worcester, Mass.	570 U.S.
Amiens, Bul. soc. apicult. Somme	Bulletin de la société d'apiculture de Somme.	— Fr.
Amiens, Bul. soc. linn. ...	Bulletin de la société linnéenne du nord de la France. Amiens (Somme). [mensuel.]	28 Fr.
Amiens, Mém. soc. linn. ...	Mémoires de la Société linnéenne. Amiens.	926 Fr.
Amsterdam, Bijdr. Dierk.	Bijdragen tot de dierkunde uitgegeven door het Koninklijk Zoölogisch genootschap Natura Artis Magistra te Amsterdam, Leiden.	— Hol.
Amsterdam, Proc. Sci. K. Akad. Wet.	Proceedings of the Sections of Sciences, Koninklijke Akademie van Wetenschappen, Amsterdam. 8vo.	3 Hol.
Amsterdam, Tijdschr. K. Ned. Aardr. Gen.	Tijdschrift van het Koninklijk Nederlandsch Aardrijkskundig Genootschap, Amsterdam. 8vo.	4 Hol.
Amsterdam, Verh. K. Akad. Wet., 2e Sect.	Verhandelingen der Koninklijke Akademie van Wetenschappen, 2e Sectie (Natuurhistorische Geologische en Medische Wetenschappen), Amsterdam. 8vo.	6 Hol.
Amsterdam, Versl. Med. Ned. Ornith. Ver.	Verslag en Mededeelingen der ornithologische Vereeniging, Wageningen.	— Hol.
Amsterdam, Versl. Wis. Nat. Afd. K. Akad. Wet.	Verslag der Vergaderingen van de Wis- en Natuurkundige Afdeeling der Koninklijke Akademie van Wetenschappen, Amsterdam. 8vo.	7 Hol.
Amsterdam, Werk. Gen. Nat. Genees. Heelk.	Werken van het Genootschap ter bevordering der Natuur-, Genees- en Heelkunde, Amsterdam. 8vo.	68 Hol.
An. cient. Parag., Asuncion	Anales cientificos Paraguayas, Asuncion.	— Paraguay.
An. Mus. Chile, Santiago ..	Anales del Museo nacional de Chile. Publicados por órden del Gobierno de Chile. Primera Seccion Zoología. Santiago.	— Chile.

An. Mus. La Plata, Buenos Aires	Anales del Museo de La Plata, Buenos Aires.	— Argent
An. Mus., Mexico	Anales del Museo nacional de México	— Mex.
An. Mus., Montevideo ...	Anales del Museo nacional de Montevideo, Montevideo.	— Uru guay
An. Mus. Nac., Buenos Aires	Anales del Museo nacional de Buenos Aires. Buenos Aires	— S. Amer
An. Mus., San Salvador	Anales del Museo nacional, organo oficial del Instituto del mismo nombre, San Salvador.	— Salvador
Anat. Anz., Jena	Anatomischer Anzeiger Centralblatt für die gesammte wissenschaftliche Anatomie, hrsg v v Bardeleben Jena. [zwanglos.] Nebst Ergänzungsheften.	40 Ger.
Anat. Hefte, Wiesbaden ..	Anatomische Hefte, hrsg v Merkel u. Bonnet Wiesbaden. 1 Abth : Arbeiten aus anatomischen Instituten [5 H. jahrl.] 2. Abth. Ergebnisse der Anatomie und Entwicklungsgeschichte. [jahrl.]	41 Ger.
Angers, Bul. soc. étud. sci	Bulletin de la société d'études scientifiques d'Angers (Maine-et-Loire) [annuel.]	33 Fr
Angl. Forsch., Heidelberg .	Anglistische Forschungen. Hrsg. v. T. Hoops. Heidelberg [zwangl.]	— Ger
Annaberg, Ber. Ver. Nath.	Bericht des Annaberg-Buchholzer Vereins für Naturkunde Annaberg [5 jahr.]	47 Ger.
Ann. ass. nat., Levallois-Perret	Annales de l'association des naturalistes Levallois-Perret.	— Fr.
Ann. biol. lacustre, Bruxelles	Annales de Biologie Lacustre, Bruxelles.	— Bel
Ann. Bot., Oxford ..	Annals of Botany, Oxford	4 U.K.
Ann. Ent. Soc. Amer., Columbus, Ohio	Annals of the Entomological Society of America. Columbus, Ohio	— U.S
Ann. Fac. Sci., Marseille ..	Annales de la Faculté des Sciences de Marseille (Bouches du Rhône)	50 Fr.
Ann. géog., Paris	Annales de géographie Dir Vidal de la Blache, Gallois et de Margerie Paris. [bimestr.]	52 Fr.
Ann. géol. Balkan., Belgrade	Annales géologiques de la péninsule Balkanique, Belgrade	— Serbia
Ann. géol. minér., Novo-Aleksandriya	Ежегодникъ по геологіи и минералогіи Россіи. Ново-Александрія [Annuaire géologique et minéralogique de la Russie. Novo-Alexandria]	— Rus
Ann. Hist.-Nat. Mus. Nat. Hung., Budapest	Annales Historico-Naturales Musei Nationalis Hungarici, Budapest.	54 Hun
Ann. hyg. colon., Paris ...	Annales d'hygiène et de médecine coloniales Paris. [trimestr.]	56 Fr
Ann. igiene, Roma ...	Annali d' Igiene sperimentale, Roma	11 It.

Ann. Inst. ocean., Monaco	Annales de l'Institut océanographique de Monaco. Monaco.	— Monaco.
Ann. Inst. Pasteur, Paris...	Annales de l'Institut Pasteur. Dir. Duclaux. Paris. [mensuel.]	60 Fr.
Ann. Mag. Nat. Hist., London	Annals and Magazine of Natural History, London.	7 U.K.
Ann. Mus. Congo, Bruxelles	État indépendant du Congo. Annales du Musée du Congo, publiées par ordre du Secrétaire d'état. Série II. Zoologie. (Bruxelles. 4to.)	— Bel.
Ann. Mus., Marseille ...	Annales du Musée de Marseille, Marseille.	— Fr.
Ann. Natal Govt. Mus., London.	Annals of the Natal Government Museum, London.	— S. Afr.
Ann. Natphilos., Leipzig ...	Annalen der Naturphilosophie. Leipzig.	1285 Ger.
Ann. paléont., Paris ...	Annales de Paléontologie publiées sous la direction de Marcellin Boule. Paris.	— Fr.
Ann. Queensland Mus., Brisbane	Annals of the Queensland Museum, Brisbane.	— Qnsl.
Ann. Rep. Geol. Surv. Ind., Calcutta	Annual Report of the Geological Survey of India, Calcutta.	2 Ind.
Ann. sci. nat. (Zool.), Paris	Annales des sciences naturelles, paraît en deux parties : 1° Zoologie et Paléontologie, comprenant l'anatomie, la physiologie, la classification et l'histoire naturelle des animaux. Dir. E. Perrier. Paris. [12 numéros par an.]	77 Fr.
Ann. Scot. Nat. Hist., Edinburgh	Annals of Scottish Natural History, Edinburgh and London.	8 U.K.
Ann. Transvaal Mus., Pretoria	Annals of the Transvaal Museum, Pretoria. Printed at the Government Printing and Stationery Office. 24½ cm. × 15½ cm.	— S. Afric.
Ann. Trop. Med., London ...	Annals of tropical medicine and parasitology. Issued by the Liverpool School of Tropical Medicine. London and Liverpool. 8vo.	— U.K.
Ann. Univ. Grenoble, Paris	Annales de l'Université de Grenoble, publiées par les Facultés de droit, des sciences et des lettres, et par l'école de médecine. Paris. [trois numéros par an.]	81 Fr.
Ann. Univ., Jassy	Annales scientifiques de l'Université de Jassy, Jassy.	— Fr.
Ann. Univ., Lyon	Annales de l'Université. Lyon (Rhône). [irrégul.]	82 Fr.
Annaberg, Ber. Ver. Natk.	Bericht des Annaberg-Buchholzer Vereins für Naturkunde. Annaberg. [5 jährl.]	47 Ger.

Année biol., Paris ...	Année biologique. Dir. Yves Delage. Paris. [annuel.] [bibliogr.]	84 Fr.
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Bologna, Rend. Acc. sc. ...	Rendiconti dell' Accademia delle scienze dell' Istituto, Bologna.	43 It.
Bombay, J. Asiat. Soc. ...	Journal of the Bombay Branch of the Royal Asiatic Society, Bombay.	— Ind.
Bombay, J. Nat. Hist. Soc.	Journal of the Bombay Natural History Society, Bombay.	5 Ind.
Bonn, SitzBer. Ges. Natk. ...	Sitzungsberichte der niederrheinischen Gesellschaft für Natur- und Heilkunde zu Bonn. Bonn.	1295 Ger.
Bonn, Verh. nathist. Ver. ...	Verhandlungen des naturhistorischen Vereins der preussischen Rheinlande, Westfalens u. d. Reg.-Bez. Osnabrück. Nebst Sitzungsberichten der niederrheinischen Gesellschaft für Natur- und Heilkunde zu Bonn. Bonn. [jährl. in je 2 Hälften.]	238 Ger.
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Budap. Arch. Zool.... ...	Archivum zoologicum Redactionis curam gerentibus Cs de Pete dr. de Madarasz et E. Csiki a Laboratoris Zoologico Hungarico editum. Budapest.	— Hun.
Budap. Orv. Ujs., Budapest	Budapesti Orvosi Ujság, Budapest. [Budapester Medizinische Zeitung, Budapest.]	— Hun.
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Met. Zs., Braunschweig ...	Meteorologische Zeitschrift. Hrsg. im Auftrage der k. k. österreichischen Gesellschaft für Meteorologie und der Deutschen meteorologischen Gesellschaft. Red. v. J. Hahn und G. Hellmann. Braunschweig. [monatl.]	— Ger.
Metz, Bul. soc. hist. nat. ...	Bulletin de la société d'histoire naturelle de Metz. Metz. [unbestimmt.]	— Ger.
Mexico, Bol. Inst. Geol. ...	Boletín del Instituto Geológico de Mexico.	— Mex.
Mexico, Mem. Soc. Ant. Alzate	Memorias de la Sociedad Cientifica "Antonio Alzate." Mexico. 8vo.	— Mex.
Michigan, Rep. Geol. Surv., Lansing	Reports of the Michigan Geological Survey, Lansing.	230 U.S.
Microgr. prépar., Paris ...	Micrographe (le) préparateur. Dir. Tempère. Paris. [bimestr.]	493 Fr.
Mikrokosmos, Stuttgart ...	Mikrokosmos. Zeitschrift zur Förderung wissenschaftlicher Bildung hrsg. v. d. Deutschen mikrologischen Gesellschaft. Stuttgart. [Hefte jährl.]	— Ger.
Milano, Atti Soc. ital. sc. nat.	Atti della Società italiana di scienze naturali, e del museo civico di Storia naturale, Milano.	102 It.

Milano, Mem. Ist. lomb. ...	Memorie dell' Istituto lombardo di scienze e lettere, Milano.	104 It.
Milano, Mem. Soc. ital. sc. nat.	Memorie della Società italiana di scienze naturali, Milano.	95 It.
Milano, Rend. Ist. lomb. ...	Rendiconti dell' Istituto lombardo di scienze e lettere, Milano	106 It.
Milwaukee, Bull. Wis. Nat. Hist. Soc.	Bulletin of the Wisconsin Natural History Society, Milwaukee.	235 U.S.
Minneapolis, Bull. Minn. Acad. Nat. Sci.	Bulletin of the Minnesota Academy of Natural Sciences, Minneapolis	247 U.S.
Minneapolis, Occ. Paprs. Minn. Acad. Nat. Sci.	Occasional Papers of the Minnesota Academy of Natural Sciences, Minneapolis.	249 U.S.
Minnesota Bull. Geol. Surv., St. Paul	Bulletin of the Minnesota Geological and Natural History Survey, St. Paul	251 U.S.
Minnesota Geol. Nat. Hist. Surv. Rep., St. Paul	The Geological and Natural History Survey of Minnesota. The Geology of Minnesota. Final Report. St. Paul, Minn.	154 U.S.
Misc. ent., Narbonne ...	Miscellanea entomologica. Revue entomologique internationale (édition française). Narbonne (E. Barthe, édit.). [mensuel.]	— Fr.
Missoula, Bull. Univ. Mont.	Bulletin University of Montana Missoula, Mont.	322 U.S.
Missouri Rep. Geol., Jefferson City	Biennial Report of the State Geologist. Jefferson City, Mo.	270 U.S.
Mitt. D. Schutzgeb., Berlin	Mittheilungen von Forschungsreisenden und Gelehrten aus den deutschen Schutzgebieten. Wissenschaftliche Beihefte zum deutschen Kolonialblatt, hrsg. v. Danckelmann. Berlin. [½ jahrl.]	805 Ger.
Mitt. D. Weinbauver., Mainz	Mitteilungen des deutschen Weinbau-Vereins. Mainz. [monatl.]	— Ger.
Mitt. Gesch. Med., Hamburg	Mitteilungen zur Geschichte der Medizin und der Naturwissenschaften. Hrsg. unter Red. v. W. A. Kahlbaum, M. Neuburg, K. Sudhoff. [½ jahrl.]	— Ger.
Mitt. nordfries. Ver. Heimatk., Husum.	Mitteilungen des nordfriesischen Vereins für Heimatkunde und Heimatliebe Husum. [jahrl.]	— Ger.
Mitt. philomath. Ges., Strassburg	Mitteilungen der philomathischen Gesellschaft in Elsass-Lothringen. [zwangl.]	— Ger.
Mitt. Weinbau, Geisenheim	Mittheilungen über Weinbau und Kellerwirthschaft, hrsg. v. Gaubatz. Geisenheim. [monatl.]	810 Ger.
Mitt. zool. Stat. Neapel, Berlin	Mittheilungen aus der zoologischen Station zu Neapel. Berlin. [½ jährl.]	811 Ger.
Modena, Atti Soc. nat. mat.	Atti della Società dei naturalisti e matematici, Modena	107 It.

Modena, Mem. Acc. ...	Memorie della R. Accademia di scienze, lettere ed arti, Modena.	99 It.
Mon. Rev., London	Monthly Review, London	332 U.K.
Monatsbl. Post, Leipzig ...	Monatsblätter für Post und Telegraphie. Leipzig. [monatl.]	818 Ger.
Monatschr. Geburtsh., Berlin	Monatsschrift für Geburtshülfe und Gynäkologie, hrsg. v. Martin u. Saenger. Berlin. [monatl.]	819 Ger.
Monatschr. Ohrenheilk., Berlin	Monatsschrift für Ohrenheilkunde, hrsg. v. Gruber etc. Berlin. [monatl.]	821 Ger.
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Monatshefte Derm., Hamburg	Monatshefte für praktische Dermatologie, red. v. Unna u. Taenzer. Hamburg. [½ monatl.] Nebst Ergänzungsheften.	826 Ger.
Monatshefte natw. Unterr., Leipzig	Monatshefte für den naturwissenschaftlichen Unterricht aller Schulgattungen, Hrsg. v. B. Landsberg u. B. Schmid. Leipzig. [monatl.]	— Ger.
Monatshefte Tierheilk., Stuttgart	Monatshefte für praktische Tierheilkunde, hrsg. v. Fröhner u. Kitt. Stuttgart. [monatl.]	828 Ger.
MonHfte Math. Phys., Wien	Monatshefte für Mathematik und Physik. Mit Unterstützung des hohen k. k. Ministeriums für Kultus und Unterricht herausgegeben von G[ustav] v[on] Escherich und L[eopold] Gegenbauer. Wien. [zwanglos.]	207 Aus.
Monit. horticult., Paris ...	Moniteur d'horticulture, arboriculture, viticulture, sciences, arts et industries horticoles. Dir. L. Chauré. Paris. [bi-mensuel.]	501 Fr.
Monitore zool. ital., Firenze	Il Monitore zoologico italiano, Firenze...	109 It.
Mons, Mém. Soc. sci. arts lettres du Hainaut	Mémoires et publications de la Société des sciences, des arts et des lettres du Hainaut (Mons).	129 Bel.
Montan. Rdsch., Wien . .	Montanistische Rundschau. Wien ...	— Aus.
Montbéliard, Mém. soc. émul.	Mémoires de la société d'émulation de Montbéliard (Doubs). [irrégul.]	510 Fr.
Montpellier, Mém. sec. sci. Acad. sci. let.	Mémoires de la section des sciences [de l'] Académie des sciences et lettres de Montpellier (Hérault). [annuel.]	521 Fr.
Montreal, Canad. Rec. Sci.	The Canadian Record of Science (Organ of the Montreal Natural History Society), Montreal.	18 Can.
Morph. Jahrb., Leipzig ...	Morphologisches Jahrbuch, hrsg. v. Gegenbauer. Leipzig. [¼ jährl.]	829 Ger.
Moskva, Ann. Inst. agron.	Извѣстія Московскаго сельско-хозяйственнаго Института. Москва [Annales de l'Institut agronomique de Moscou].	133 Rus.

Moskva, Bull. Soc. Nat. ...	Bulletin de la Société Impériale des Naturalistes de Moscou.	136 Rus.
Moskva, Dnev. XII Sjězda russ. jest. vrač.	Дневникъ XII съѣзда русскихъ естествоиспытателей и врачей. Москва 1909-1910 [Journal XII de la conférence des naturalistes et médecins russes 1909-1910. Moscou.]	407 Rus.
Moskva, Dnev. otd icht. Imp. R. Obšč. acclimat.	Дневникъ отдѣла ихтіологіи Императорскаго Русскаго Общества акклиматизаціи животныхъ и растеній. Москва [Journal de la section ichthyologique de la Société Impériale Russe d'acclimatation des plantes et des animaux. Moscou].	422 Rus.
Moskva, Dnev. zool. otd. obšč. lĭub. jest.	Дневникъ зоологическаго отдѣленія Императорскаго Общества любителей естествознанія, астрономіи и этнографіи при Имп Московскомъ Университетѣ. Москва [Journal de la section Zoologique de la Société Impériale des amateurs des sciences naturelles, d'anthropologie et d'ethnographie. Moscou].	— Rus.
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Moskva, Izv. Obšč. lĭub. jest.	Извѣстія Императорскаго Общества любителей естествознанія, антропологіи и этнографіи при Императорскомъ Московскомъ Университетѣ. Москва [Bulletin de la Société Impériale des amateurs des sciences naturelles, d'anthropologie et d'ethnographie près l'Université Impériale de Moscou].	138 Rus.
Moskva, Nour. Mém. Soc. Nat.	Nouveaux Mémoires de la Société Impériale des Naturalistes de Moscou	141 Rus.
Moskva, Trd. kruž. izsl. russ. prir.	Труды студенческаго кружка для изслѣдованія русской природы, состоящаго при Императорскомъ Московскомъ Университетѣ. Москва [Travaux du cercle des étudiants pour l'exploration de la nature russe attache à l'Université Impériale de Moscou. Moscou].	425 Rus.
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München Abh. Ak. Wiss. ..	Abhandlungen der kgl. bayerischen Akademie der Wissenschaften. München. [jahrl. in zwangl. H.]	833 Ger.

München, Ber. biol. Versuchstat.	Berichte aus der kgl. bayerischen biologischen Versuchsstation in München. Hrsg. v. B. Hofer. München. [zwangl.]	— Ger.
München, SitzBer. Ak. Wiss.	Sitzungsberichte der kgl. bayerischen Akademie der Wissenschaften zu München. München. [jährl. in zwangl. H.]	839 Ger.
München, SitzBer. Ges. Morph.	Sitzungsberichte der Gesellschaft für Morphologie und Physiologie in München. München. [3 H. jährl.]	840 Ger.
München, Verh. Ornith. Ges.	Verhandlungen der ornithologischen Gesellschaft in Bayern. München. [jährl.] [Fortsetzung von München, Jahresber. Ornith. Ver.]	— Ger.
Münchener med. Wochenschr.	Münchener medicinische Wochenschrift, red. v. Spatz. München. [wöch.]	847 Ger.
Münster, Jahresber. Prov-Ver. Wiss.	Jahresbericht des westfälischen Provinzialvereins für Wissenschaft und Kunst. Münster. [jährl.]	850 Ger.
Museumskunde, Berlin ...	Museumskunde. Zeitschrift für Verwaltung und Technik öffentlicher und privater Sammlungen. Hrsg. v. K. Koetschau. Berlin. [4 H. jährl.]	— Ger.
Muzeum, Lwów	Muzeum, czasopismo Towarzystwa Nauczycieli Szkół wyższych, red. B. Mańkowski, Lwów. 8vo. [monthly.]	26 Pol.
N. Bahnen, Leipzig ...	Neue Bahnen. Monatschrift für Haus-, Schul- und Gesellschafts-Erziehung. Zugleich Organ der Freien Vereinigung für philosophische Paedagogik. Hrsg. unter Mitwirkung namhafter Paedagogen v. H. Scherer. Leipzig (Emil Behrend).	1345 Ger.
N. Denkschr. Schweiz. Ges. Natw., Zürich	Neue Denkschriften der allgemeinen schweizerischen Gesellschaft für die gesammten Naturwissenschaften. Nouveaux Mémoires de la Société helvétique des sciences naturelles. Zürich etc. 4to.	71 Swi.
N. Jahrb. Min., Stuttgart ..	Neues Jahrbuch für Mineralogie, Geologie und Paläontologie, hrsg. v. Bauer. Stuttgart. [2 monatl.] Nebst Beilage-Bänden.	854 Ger.
N. Weltanschaug, Stuttgart	Neue Weltanschauung. Monatschrift für Kulturfortschritt auf naturwissenschaftlicher Grundlage. Red. v. W. Breitenbach. Stuttgart. [mon.]	— Ger.
Nancy, Bul. soc. sci. ...	Bulletin des séances de la société des sciences de Nancy et de la réunion biologique de Nancy (Meurthe-et-Moselle). [mensuel.]	530 Fr.
Nancy, C. R. Ass. anat. ...	Comptes rendus de l'association des anatomistes. Nancy.	— Fr.

Nantes Bul. soc. sci. or hist. nat.	Bulletin de la société des sciences naturelles de l'Ouest. Nantes (Loire-Inférieure). [trimestr.]	537 Fr.
Napoli, Annuario Museo zool.	Annuario del Museo zoologico della R. Università di Napoli.	291 It.
Napoli, Atti Acc. Pontaniana	Atti dell' Accademia Pontaniana, Napoli.	111 It.
Napoli, Atti Acc. sc. ...	Atti dell' Accademia delle scienze fische e matematiche, Napoli.	115 It.
Napoli, Atti Ist. incoragg. sc. nat.	Atti dell' Istituto d' incoraggiamento alle scienze naturali, Napoli.	113 It.
Napoli, Boll. Soc. nat. ...	Bollettino della Società di naturalisti, Napoli.	118 It.
Napoli, Rend. Acc. sc. ...	Rendiconti dell' Accademia delle scienze fisiche e matematiche, Napoli.	120 It.
Naša ochota, St. Peterburg	Наша охота. С.-Петербургъ [Notre chasse, St. Pétersbourg].	— Rus.
Naša pticev. zizně, Kišinev	Наша птицеводная жизнь. Кишиневъ [L'aviculture chez nous. Kišinev].	— Rus.
NatCab., Grünberg... ...	Das Naturalien-Cabinet. Grünberg i. Schl. [½ monatl.]	862 Ger.
Nat. Canad., Québec ...	Naturaliste Canadien Cap Rouge, Chicoutimi, Québec.	22 Can.
Nat. Novit., Berlin... ...	Naturae Novitates. Bibliographie neuer Erscheinungen aller Länder auf dem Gebiete der Naturgeschichte und der exacten Wissenschaften. Berlin. [Bibliographie, 26 Nrn jahrl.]	861 Ger.
Nation. Geog. Mag., New York, N.Y.	National Geographic Magazine, New York, N.Y.	270 U.S.
Natur, Leipzig	Natur. Zeitschrift der Deutschen Naturwissenschaftlichen Gesellschaft. Leipzig. [½ monatlich.]	— Ger.
Natur u. Erziehg, Stuttgart	Natur und Erziehung. Monatschrift zur Verbreitung und Pflege der Naturwissenschaften in Schule u. Haus, hrsg. v. F. Dannemann und K. Smalian. Stuttgart. [monatl.]	— Ger.
Natur u. Glaube, Leutkirch	Natur und Glaube. Naturwissenschaftliche Monatsschrift, hrsg. v. Weiss Leutkirch. [monatl.]	864 Ger.
Natur u. Haus, Stuttgart [früher Dresden]	Natur und Haus. Illustrirte Zeitschrift, hrsg. v. Hesdorffer. Stuttgart. [monatl.]	865 Ger.
Natur u. Kultur, München	Natur u. Kultur. Zeitschrift für Schule und Leben. Hrsg. v. F. H. Völler. München. [½ monatl.]	— Ger.
Natur u. Offenb., Münster...	Natur und Offenbarung. Organ zur Vermittelung zwischen Naturforschung und Glauben für Gebildete aller Stände. Münster. [monatl.]	866 Ger.

Natur u. Schule, Leipzig ...	Natur und Schule. Zeitschrift für den gesammten naturkundlichen Unterricht aller Schulen. Leipzig und Berlin.	1289 Ger.
Naturaleza, Mexico ...	La Naturaleza. Periódico cientifico de la Sociedad mexicana de Historia natural, Mexico.	— Mex.
Naturalist, London ...	The Naturalist, Leeds and London ...	336 U.K.
Naturalista sicil., Palermo	Il Naturalista siciliano, Palermo ...	121 It.
Naturaliste, Paris	Naturaliste (le), revue illustrée des sciences naturelles. Dir. Deyrolle. Paris. [bimensuel.]	541 Fr.
Nature, London	Nature, London	337 U.K.
Nature Notes, London ...	Nature Notes (Selborne Society's Magazine), London. 8vo.	338 U.K.
Nature, Paris	Nature (la), revue illustrée des sciences et de leurs applications aux arts et à l'industrie. Réd. H. de Parville. Paris. [hebdomad.]	542 Fr
Naturfreund, St. Petersburg	Любитель природы. С.-Петербургъ [Der Naturfreund. St. Petersburg].	— Rus.
Natw. Rdsch., Braunschweig	Naturwissenschaftliche Rundschau, hrsg. v. Sklarek. Braunschweig. [wöch.]	867 Ger.
Natw. Wochenschr., Jena ...	Naturwissenschaftliche Wochenschrift, red. v. Potonié. Jena.	868 Ger.
Natw. Zs. Landw., Stuttgart	Naturwissenschaftliche Zeitschrift für Land- und Forstwirtschaft, hrsg. v. K. v. Tubeuf und L. Hiltner. Stuttgart. [monatl.]	— Ger.
Nautilus, Boston, Mass. [formerly Philadelphia, Pa.]	Nautilus, Boston, Mass.	271 U.S.
Ned. Tijdschr. Geneesk., Amsterdam	Nederlandsch Tijdschrift voor Geneeskunde, tevens Orgaan der Nederlandsche Maatschappij ter bevordering van Geneeskunst, Amsterdam. 8vo.	39 Hol.
Nerthus, Altona	Nerthus. Wochenschrift für Pflanzen- und Blumenfreunde, red. v. Goetze Altona. [wöch.]	871 Ger.
Neuchâtel, Bul. Soc. Sci. Nat.	Bulletin de la Société neuchâteloise des sciences naturelles. Neuchâtel. 8vo.	73 Swi.
Neurol. Centralbl., Leipzig	Neurologisches Centralblatt, hrsg. v. Mendel. Leipzig. [½ monatl.]	873 Ger.
New Brighton, N.Y., Proc. Staten Is. Ass. Arts Sci.	Proceedings of the Staten Island Association of Arts and Sciences, New Brighton, N.Y.	274 U.S.
Newcastle, Proc. Univ. Durham Phil. Soc.	Proceedings of the University of Durham Philosophical Society, Newcastle-upon-Tyne.	— U.K.

Newcastle, Trans. Nat. Hist. Soc.	Northumberland, Durham, and Newcastle-upon-Tyne Natural History Society, Newcastle-upon-Tyne.	341 U.K.
New Haven, Conn., Trans. Acad. Arts Sci.	Transactions of the Connecticut Academy of Arts and Sciences, New Haven.	279 U.S.
New Jersey Rep. Geol. Surv., Trenton	Annual Report, Geological Survey of New Jersey, Trenton.	284 U.S.
Newport, Proc. Nat. Hist. Soc.	Proceedings of the Newport Natural History Society, Newport. 8vo.	346 U.K.
Newport, R.I., Proc. Nat. Hist. Soc.	Proceedings of the Newport Natural History Society, Newport, R.I.	286 U.S.
New York, N.Y., Acad. Sci. Mem.	New York Academy of Sciences, Memoirs, New York, N.Y.	321 U.S.
New York, N.Y., Amer. Mus. Nat. Hist. Rep.	American Museum of Natural History. Annual Report of the President.	329 U.S.
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New York, N.Y., Bull. Amer. Geog. Soc.	Bulletin of the American Geographical Society. [Included in New York, N.Y., J. Amer. Geog. Soc.]	296 U.S.
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Nice, ann. soc. let. sci. ...	Annales de la société des lettres, sciences et arts des Alpes Maritimes. Nice (Alpes-Maritimes). [annuel.]	546 Fr.
Nikolsk Fischzucht., St. Peterburg	Изъ Никольскаго рыбоводнаго завода. С.-Петербургъ [Aus der Fischzuchtanstalt Nikolsk. St.-Petersburg].	164 Rus.

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Norges geol. Und., Kristiania	Norges geologiske Undersøgelse, Kristiania.	23 Nor.
Norsk Landm., Kristiania	Norsk Landmansblad, Kristiania ...	30 Nor.
Northampton, J. Nat. Hist. Soc.	Journal of the Northamptonshire Natural History Society and Field Club, Northampton.	349 U.K.
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Nouv. arch. miss. sci. litt., Paris	Nouvelles archives des Missions scientifiques et littéraires. Paris.	— Fr.
Nouv. arch. Muséum, Paris	Nouvelles archives du Muséum. Paris. [2 vols. par an.]	558 Fr.
Nov. Zool., Tring	Novitates Zoologicæ, Tring. 8vo. ...	352 U.K.
Novo-Alexandrija, Zap. Inst. selĭsk. choz.	Записки Ново-Александрійскаго Института сельскаго хозяйства и лѣсоводства. Ново-Александрія [Mémoires de l'Institut agronomique et forestier à Novo-Alexandria].	167 Rus.
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Nymegen, Rec. Trav. Bot. Néerl.	Recueil des travaux botaniques Néerlandais, publié par la Société Botanique Néerlandaise. Nimegne (Macdonald).	— Hol.
Nyt Mag. Naturv., Kristiania	Nyt Magazin for Naturvidenskaberne, Kristiania.	24 Nor.
Ochotn. gazeta, Moskva ...	Охотничья газета. Москва [Journal de chasse. Moscou].	— Rus.
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Öst. Bot. Zs., Wien ...	Österreichische Botanische Zeitschrift. Herausgeg. u. red. v. Richard R[itter] Wettstein v[on Westersheim]. Wien. [monatl.]	231 Aus.
Oest. FischereiZtg, Wien ...	Oesterreichische Fischerei - Zeitung. Wien.	— Aus.

Öst. Jahresh. Pharmaz., Wien	Österreichische Jahreshefte für Pharmazie und verwandte Wissenszweige. Gesammelte Abhandlungen und Vorträge aus der Zeitschrift des Allgemeinen Österreichischen Apothekervereines. Wien. [jährl.]	238 Ger.
Oest. Rdsch., Wien... ...	Oesterreichische Rundschau. Herausgegeben von Alfred Freiherrn von Berger und Karl Glossy. Wien. [wöchentlich.]	— Aus.
Offenbach, Ber. Ver. Nath.	Bericht über die Thätigkeit des Offenbacher Vereins für Naturkunde. Offenbach a. M. [mehrjähr.]	887 Ger.
Ohio Geol. Surv. Bull., Columbus	Geological Survey of Ohio Bulletin. Columbus, Ohio.	— U.S.
Ohio Nat., Columbus, Ohio	Ohio Naturalist. (Biological Club, Ohio State University), Columbus, Ohio.	348 U.S.
Okóln. Ryb., Kraków ...	Okólnik, organ Krajowego Towarzystwa Rybackiego w Krakowie, red. F. Wilkosz. 8vo. [once in two months.]	31 Pol.
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Washington, D.C., U. S. Dept. Agric. Bur. Plant Ind. Bull.	U. S. Department of Agriculture. Bulletin of the Bureau of Plant Industry, Washington, D.C.	540 U.S.
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Washington, D.C., U. S. Dept. Agric. Off. Exp. Sta. Rec.	U. S. Department of Agriculture. Office of Experiment Stations. Experiment Station Record, Washington, D.C.	511 U.S.
Washington, D.C., U. S. Dept. Agric. Rep. Bur. Anim. Indust.	U. S. Department of Agriculture. Annual Report of the Bureau of Animal Industry, Washington, D.C.	512 U.S.
Washington, D.C., U. S. Dept. Int. Bull. Geol. Surv.	Department of the Interior. Bulletin of the United States Geological Survey, Washington, D.C.	516 U.S.
Washington, D.C., U. S. Dept. Int. Geol. Atlas Geol. Surv.	Department of the Interior. Geological Atlas of the United States. U. S. Geological Survey, Washington, D.C.	517 U.S.
Washington, D.C., Yearbook U. S. Dept. Agric.	Yearbook of the U. S. Department of Agriculture, Washington, D.C.	529 U.S.
Watford, Trans. Herts Nat. Hist. Soc.	Transactions of the Hertfordshire Natural History Society and Field Club, Watford and St. Albans.	148 U.K.
Weidmann, Braunschweig...	Der Weidmann. Blätter für Jäger und Jagdfreunde, red. v. Dr. L. Staby. Braunschweig-Charlottenburg. [wöch.]	1106 Ger.
Wellington Coll., Ann. Rep. Nat. Sci. Soc.	Annual Report of the Wellington College Natural Science Society, Wellington. 8vo.	425 U.K.
Wellington, Trans. and Proc. N. Zeal. Inst.	Transactions and Proceedings of the New Zealand Institute, Wellington.	— N.Z.
Wernigerode, Schr. natw. Ver.	Schriften des naturwissenschaftlichen Vereins des Harzes in Wernigerode. Wernigerode. [zwanglos.]	1112 Ger.
West Ind. Bull., Barbados	West Indian Bulletin, the Journal of the Imperial Agricultural Department for the West Indies, Barbados.	— W. In.
West Virginia, Morgantown, Pub. Geol. Surv.	Publications of the West Virginian Geological Survey, Morgantown.	531 U.S.
Wien, Abh. Geol. Reichs Anst.	Abhandlungen der k. k. Geologischen Reichs-Anstalt. Wien. [zwanglos.]	404 Aus.
Wien, Abh. Zool Bot. Ges....	Abhandlungen der k. k. Zoologisch-Botanischen Gesellschaft in Wien. Red. v. Anton Handlirsch. Wien. [zwanglos.]	405 Aus.
Wien, Alm. Ak. Wiss. ...	Almanach der Kaiserlichen Akademie der Wissenschaften. Wien. [jährl.]	407 Aus.

Wien, Ann. NatHist. Hofmus.	Annalen des k. k. Naturhistorischen Hofmuseums. Redig. von Franz Steindachner. Wien. [4 jährl.]	408 Aus.
Wien, Anz. Ak. Wiss.	Anzeiger der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. [27 H. jährl.]	409 Aus.
Wien, Arb. Zool. Inst. Univ.	Arbeiten aus den Zoologischen-Instituten der Universität Wien und der Zoologischen Station in Triest. Herausgeg. v. Karl Grobben und Berthold Hatschek. Wien. [zwanglos.]	411 Aus.
Wien, Beitr. Pal. Geol. Ost-Ung.	Beiträge zur Paläontologie und Geologie Österreich-Ungarns und des Orients. Mitteilungen des Paläontologischen und Geologischen Institutes der Universität Wien. Herausgegeben mit Unterstützung des hohen Ministeriums für Kultus und Unterricht von Viktor Uhlig und Gustav[] von Arthaber. Wien. [4 jährl.]	415 Aus.
Wien, Denkschr. Ak. Wiss.	Denkschriften der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Wien. [semiannual jährl.]	420 Aus.
Wien, Jahrb. Geol. Reichs-Anst.	Jahrbuch der k. k. Geologischen Reichs-Anstalt. Wien. [4 jährl.]	425 Aus.
Wien, JahrBer. Entom. Ver.	Jahresbericht des Wiener Entomologischen Vereines. Wien. [jährl.]	430 Aus.
Wien, JahrBer. Ver. Adria	Jahresbericht des Vereines zur Förderung der naturwissenschaftlichen Erforschung der Adria. Wien. [jährl.]	— Aus.
Wien, Mitt. Naturw. Ver. Univ.	Mitteilungen des Naturwissenschaftlichen Vereines an der Universität Wien. Jährlich 8–10 Nummern. Selbstverlag.	— Aus.
Wien, Mitt. Ost. Reichsbd. Vogelk.	Mitteilungen des Österreichischen Reichsbundes für Vogelkunde und Vogelschutz in Wien. Wien. [monatl.]	447 Aus.
Wien, Mitt. Polyxena	Mitteilungen des entomologischen Vereins Polyxena. Wien. [monatl.]	— Aus.
Wien, Schr. Ver. Verbr. Natur. Kenntn.	Schriften des Vereins zur Verbreitung Naturwissenschaftlicher Kenntnisse in Wien. [Nebenmed.] Populäre Vorträge aus allen Fächern der Naturwissenschaft. Herausgegeben vom Vereine zur Verbreitung Naturwissenschaftlicher Kenntnisse in Wien. Wien. [jährl. bezw. in zwanglosen Heften.]	471 Aus.

Wien, SitzBer. Ak. Wiss. ..	Sitzungsberichte der Kaiserlichen Akademie der Wissenschaften. Mathematisch-Naturwissenschaftliche Klasse. Wien. [in 4 Abteilungen, zwanglos.]	472 Aus.
Wien, Verh. Geol. Rchs-Anst.	Verhandlungen der k. k. Geologischen Reichs-Anstalt. Wien. [18 H. jährl.]	477 Aus.
Wien, Verh. ZoolBot. Ges.	Verhandlungen der k. k. Zoologisch-Botanischen Gesellschaft in Wien. Red. v. A[nton] Handlirsch. Wien. [10 H. jährl.]	479 Aus.
Wiesbaden, Jahrb. Ver. Natk.	Jahrbücher des nassauischen Vereins für Naturkunde. Wiesbaden. [jährl.]	1121 Ger.
Wild u. Hund, Berlin ...	Wild und Hund, red. v. Stahlecker. Berlin. [wöch.]	1123 Ger.
Wilson Bull., Oberlin, Ohio	Wilson Bulletin. (Wilson Ornithological Club.) Oberlin, Ohio.	347 U.S.
Wilts. Archæol. Mag., Devizes	The Wiltshire Archæological, and Natural History Magazine, Devizes.	426 U.K.
Wisconsin, Madison, Geol. Nat. Hist. Surv. Bull.	Wisconsin Geological and Natural History Survey. Bulletin. Madison.	534 U.S.
Wiss. Meeresunters., Kiel ...	Wissenschaftliche Meeresuntersuchungen, hrsg. v. d. Commission zur wissenschaftlichen Untersuchung der deutschen Meere in Kiel u. der Biologischen Anstalt auf Helgoland. Kiel. [zwanglos.]	1127 Ger.
Wochenschr. Aquarienkunde, Braunschweig	Wochenschrift für Aquarien- und Terrarienkunde. Hrsg. v. W. Wolterstorff. Braunschweig. [wöch.]	— Ger.
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Wood's Holl, Mass., Mar. Biol. Lab. Lect.	Marine Biological Laboratory. Biological Lectures, Wood's Holl, Mass.	536 U.S.
Woolhope, Trans. Nat. F. Cl.	Transactions of the Woolhope Naturalists' Field Club, Hereford. 8vo.	427 U.K.
Worcester, Trans. Nat. Cl.	Worcester. The transactions of the Worcestershire Naturalists' Club. [Established 1847.]	— U.K.
Wr Klin Rdsch., Wien ...	Wiener Klinische Rundschau. Organ für die gesamte praktische Heilkunde sowie für die Interessen des ärztlichen Standes. Red. v. F. Obermayer und Karl Kunn. Wien. [wöchentl.]	495 Aus.
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Wr Med WochSchr., Wien	Wiener Medizinische Wochenschrift. Red. v. Heinrich Adler. Wien. [wöchentl.]	499 Aus.

Wr. Urania, Wien	Urania, illustrierte populärwissenschaftliche Wochenschrift redigiert von Albert Edler von Obermayer, Alfred Till und Heinrich Jaeschke. Wien (Kosmos)	— Aus.
Warszawiak, Warszawa	Warszawiak, tygodnik polityczny naukowy przyrodniczy, red. Dr. Zuntowska, Warszawa 4to. [weekly]	57 Pol.
Würzburg, Sitzber. physik. Ges.	Sitzungsberichte der physikalisch-medicinischen Gesellschaft zu Würzburg. Würzburg. [jährl. in zwangl. H.]	1140 Ger.
Würzburg, Verh. physik. Ges.	Verhandlungen der physikalisch-medicinischen Gesellschaft zu Würzburg. Würzburg. [jährl. in zwangl. H.]	1141 Ger.
Yorks. Proc. Geol. Polyt. Soc.	Proceedings of the Yorkshire Geological and Polytechnic Society. Halifax.	430 U.K.
York, Rep. Phil. Soc.	Annual Report of the Council of the Yorkshire Philosophical Society. York. 8vo.	431 U.K.
Zagreb, Rad Jugoslav. Ak.	Rad Jugoslavenske akademije znanosti i umjetnosti. [Transactions of the South Slav Academy of Art and Science.] Zagreb.	— Croat.
Zap. Ikon. Suwalsk. gub., Suwalki	Записки Сувалкскаго Губернскаго Музея. Сувалки. [Mémoires des Inventaires du district de Suwalki]	— Ros.
Zap. Obšč. sel'sk. choz. Južn. Ross., Odessa	Записки Новороссійскаго общества сельскаго хозяйства Южной Россіи. Одесса. [Mémoires de la Société Impériale d'Agriculture de la Russie méridionale. Odessa]	380 Ros.
Zaragoza, Bol. Soc. Arag.	Boletin de la Sociedad Aragonesa de Ciencias Naturales. Zaragoza.	— Span.
Zdrowie, Warszawa	Zdrowie, red. W. Jaworski, Warszawa 8vo. [monthly]	59 Pol.
Zeitschr. ges. Med., Leipzig	Zeitschrift für ganze Medicin, red. v. Unverricht. Leipzig. [weekly]	280 Ger.
Zentrbl. Forstwes., Wien	Zentralblatt für das gesamte Forstwesen. Organ der k. k. Forstlichen Versuchsanstalt. Herausgegeben von Josef Kronfeld. Wien. [monthly]	600 Aus.
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Zool. Ann., Würzburg	Zoologische Annalen. Zeitschrift für Geschichte der Zoologie. Hrsg. von Max Braun. Würzburg.	— Ger.
Zool. Anz., Leipzig	Zoologischer Anzeiger, hrsg. v. Carus. Leipzig. [2–3 Nrs. monthly]	1148 Ger.

Zool. Beob., Frankfurt a. M.	Zoologischer Beobachter. Organ der zoologischen Gärten Deutschlands. Hrsg. v. d. Neuen zoologischen Gesellschaft. Frankfurt a. M. [monatl.]	— Ger.
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Zool. Jahresber., Berlin ...	Zoologischer Jahresbericht, hrsg. v. d. zool. Station zu Neapel. Berlin. [referirend, jährl.]	1152 Ger.
Zool. Rec., London... ...	The Zoological Record, London... ...	435 U.K.
Zool Zentralbl., Leipzig ...	Zoologisches Zentralblatt, hrsg. v. Schuberg. Leipzig. [referirend, 26 Nrn jährl.]	1149 Ger.
Zoologica, Stuttgart ...	Zoologica. Original-Abhandlungen aus dem Gesammtgebiete der Zoologie, hrsg. v. Chun. Stuttgart. [3–4 H. jährl.]	1153 Ger
Zoologist, London	The Zoologist, London. 8vo.	434 U.K
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Zs. Entwlehre, Stuttgart ...	Zeitschrift für den Ausbau der Entwicklungslehre. Hrsg. v. R. H. Francé. Stuttgart. [jährl 12 Hefte.]	— Ger.
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Ze. Infektkrankh. Haustiere, Berlin	Zeitschrift für Infektionskrankheiten, parasitäre Krankheiten und Hygiene der Haustiere. Hrsg. v. R. Ostertag. Berlin. [zwangl.]	— Ger.
Ze. Jagdschutzver., Berlin	Zeitschrift des allgemeinen deutschen Jagdschutz-Vereins sowie der deutschen Versuchs-Anstalt für Handfeuerwaffen. Berlin.	827 Ger.
Ze. klin. Med., Berlin	Zeitschrift für klinische Medizin, red. v. v. Leyden u. Klemperer. Berlin. [15 H. jährl.]	1199 Ger.
Ze. Landw. Versuchsw., Wien	Zeitschrift für das Landwirtschaftliche Versuchswesen in Österreich. Vom k. k. Ackerbaumeister redigiertes offizielles Organ für wissenschaftliche Forschung auf dem Gebiete der Landwirtschaft und der landwirtschaftlichen Gewerbe. Red. v. E. Mesnil etc. Wien, Pest, Leipzig. [monatl.]	520 Aus.
Ze. Laryng., Würzburg	Zeitschrift für Laryngologie, Rhinologie und ihre Grenzgebiete. Hrsg. v. J. Ehrenfried. Würzburg. [2 monatl.]	— Ger.
Ze. LehrmWes., Wien	Zeitschrift für Lehrmittelwesen und pädagogische Literatur. Herausgegeben v. Franz Frisch. Wien. [10 H. jährl.]	— Aus.
Ze. Min., Stuttgart	Zeitschrift für Mineralogie, Geologie und Paläontologie. Hrsg. v. R. Zimmermann. Stuttgart. [monatl.]	— Ger.
Ze. Morph., Stuttgart	Zeitschrift für Morphologie und Anthropologie, hrsg. v. Schwalbe. Stuttgart. [zwangl.]	1213 Ger.

Zs. Natw., Leipzig ...	Zeitschrift für Naturwissenschaften. Organ des naturwissenschaftlichen Vereins für Sachsen und Thüringen. Leipzig. [2 monatl.]	1214 Ger.
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Zs. Ornith., Stettin... ...	Zeitschrift für Ornithologie und praktische Geflügelzucht. Organ des Verbandes der ornithologischen Vereine Pommerns. Stettin. [monatl.]	1218 Ger.
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Zurich, Mitt. Schweiz. Forstl. Versuchsw.	Mitteilungen der schweizerischen Centralanstalt für das forstliche Versuchswesen. Zurich. 8vo.	123 Swi.
Zurich, Neujahrbl. natf. Ges.	Neujahrsblatt der Naturforschenden Gesellschaft in Zurich. 4to.	— Swi.
Zurich, Vierteljahrsch. Natf. Ges.	Vierteljahrsschrift der naturforschenden Gesellschaft in Zürich. Zürich und München. 8vo.	125 Swi.

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Zwickau, Jahresber. Ver. Natk.	Jahresbericht des Vereins für Naturkunde zu Zwickau. Zwickau. [Jahrl.]	1253 Ger

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